

The **CHEMIST AND DRUGGIST**

For Retailer, Wholesaler and Manufacturer

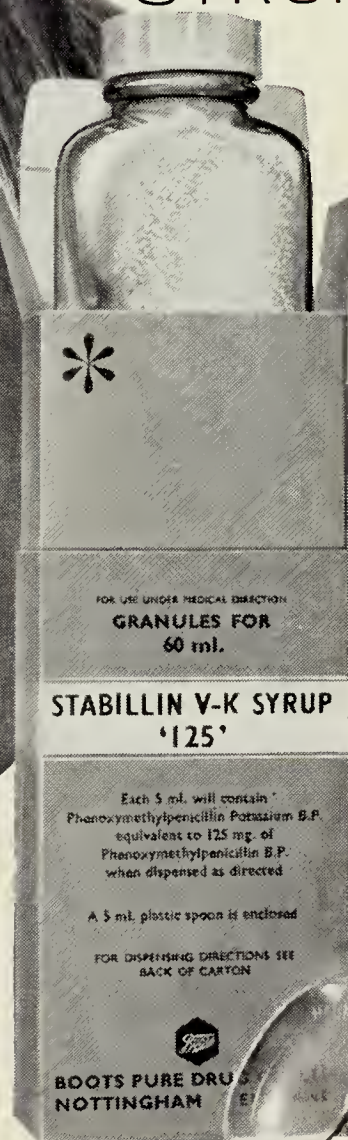
OCTOBER 12 1963

STABILLIN V-K SYRUP '125'

**Potassium
penicillin V syrup
with the new
plum flavour**

There will be a big demand for this new penicillin V syrup because it has a pleasant plum flavour which appeals both to children and adults. In addition, the pack has been specially designed for the busy pharmacist. The syrup can quickly be prepared from the soluble granules and, together with the spoon, presented in the plain inner carton to the patient. No extra wrapping is needed—and you save valuable time at busy moments.

STABILLIN V-K SYRUP '125' contains 125 mg. of penicillin V (as potassium salt) in each 5 ml. when dispensed as directed. Granules to make 60 ml.—trade price 52/- per dozen.



* Plain
inner
carton

ORDER NOW FROM YOUR USUAL WHOLESALER

or from Wholesale Division, Boots Pure Drug Company, Limited, Station Street, Nottingham, Tel: 56111

A WORLD-WIDE SERVICE ...

FOR ALKALOIDS *and* FINE CHEMICALS



HONG KONG



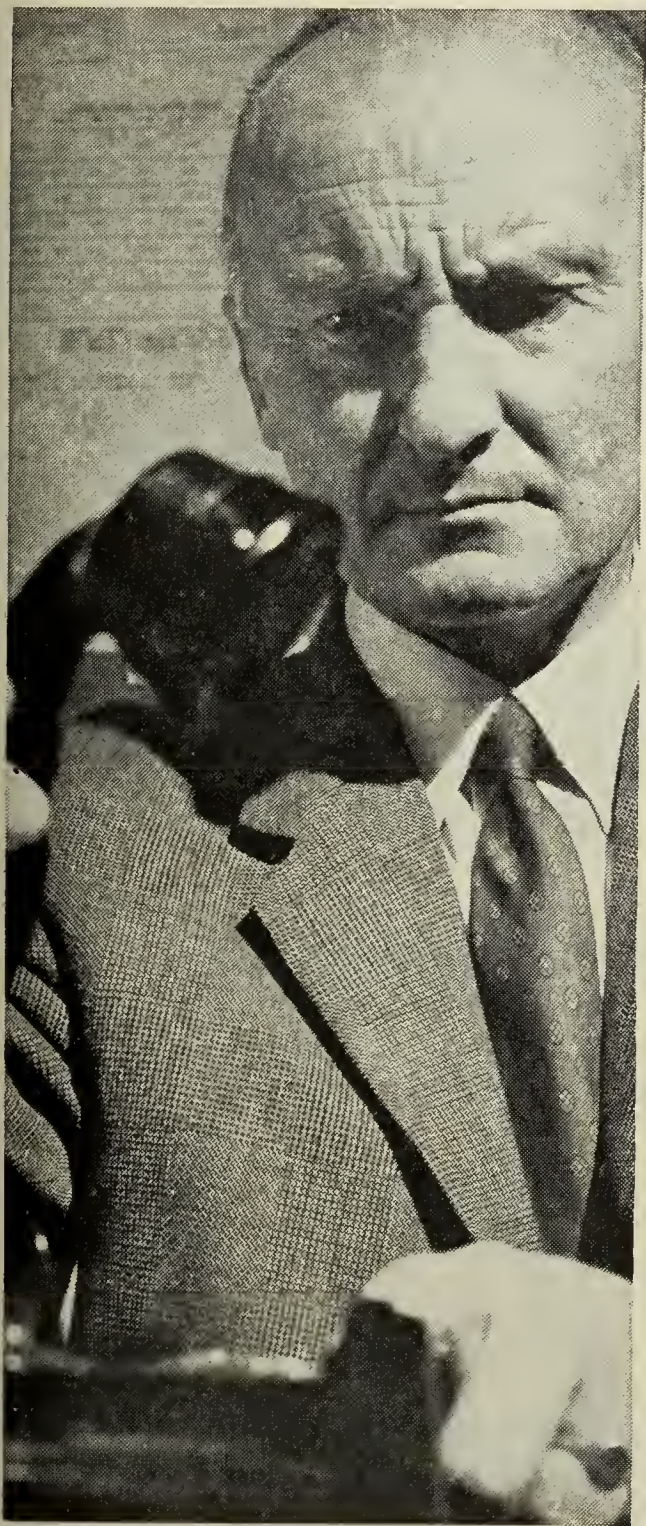
In Hong Kong as in many other centres we serve the pharmaceutical industry.

Manufacturers of Aloin, Atropine, Eserine, Ethylmorphine, Extract of Male Fern, Hyoscine, Jalap Resin, Morphine, Pilocarpine, Santonin, Scammony Resin.

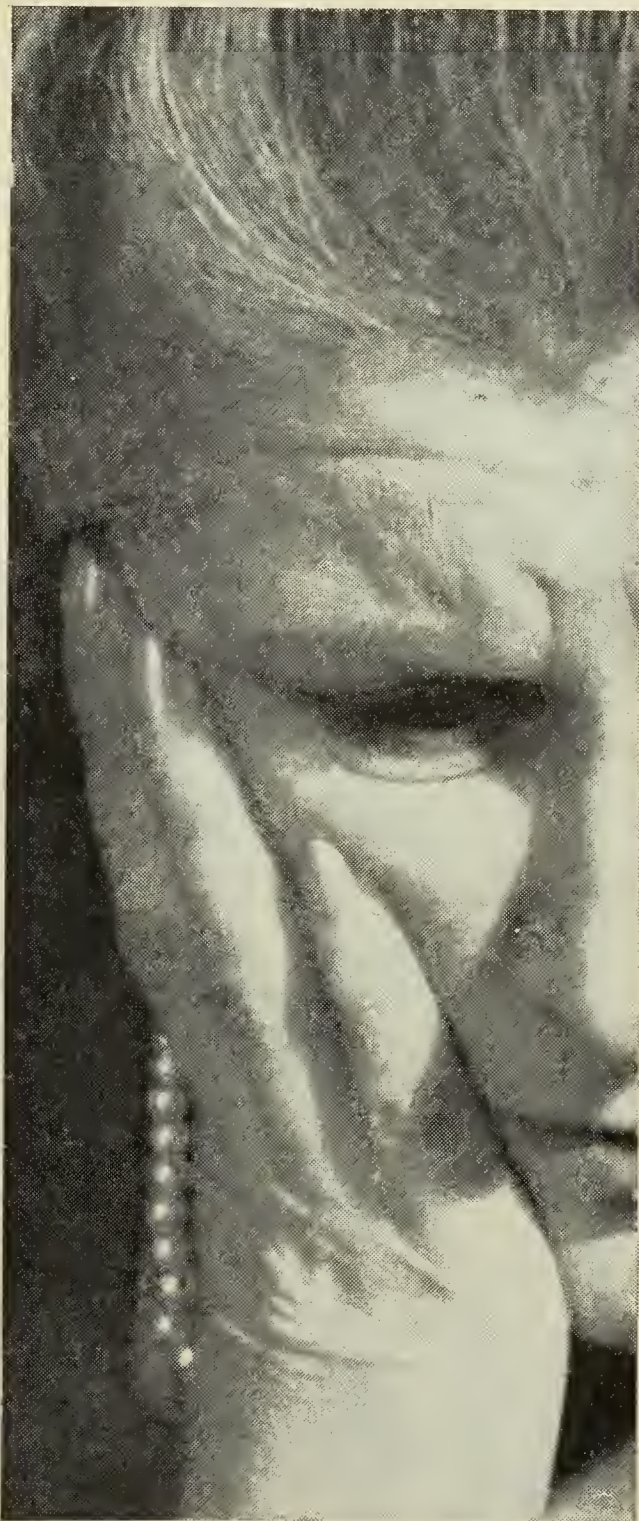
Leaders in Codeine Phosphate.

MACFARLAN SMITH LTD

EDINBURGH · LONDON · MONTREAL · SYDNEY · MELBOURNE · WELLINGTON
and agents in 50 other countries



'I'M FEELING A BIT UNDER THE WEATHER...'



'THINGS ARE A BIT ON TOP OF ME JUST NOW...'

Their answer in your hands

It's surprising how many people take their problems to the Chemist's Shop. But it's no surprise to the pharmacist. He meets those problems daily and few customers ever leave his shop dissatisfied. To the resources of the pharmacist are added those of Vitamins Limited, Britain's leading specialists in vitamin preparations. For prescription and counter.

BEFORTISS *To promote appetite and general well being, to build up resistance.*

OROVITE *Helps to ensure speedier recovery for those convalescing after illness.*



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***BIG NATIONAL PRESS AND T.V.
CAMPAIGNS JUST BREAKING***

BRINGS YOU

69% PROFIT ON COST

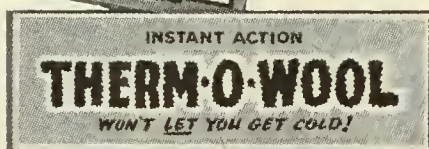
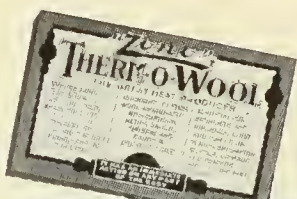
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6 CASES AND ABOVE

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An **S&N** Product



"ZONO"

THERM-O-WOOL

(REGD.)

2/4 and 3/10 cartons

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COLLYRE BLEU

THE ORIGINAL "LAITER"
CLEAR - BLUE EYE DROPS

for mild eye affection and for contact lens users

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For Pharmacy fittings,
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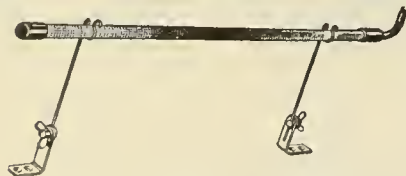
STOCK

'Salvelox'

the modern plaster

WHITECROFT (LYDNEY) LTD., WHITECROFT, GLOS.

THE IMPROVED DRY-PAYNE



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ELECTRICAL DEMISTER

with the new
PATENT HEAT REFLECTOR

MORE EFFICIENT THAN EVER
Keep your windows clear of mist in all weathers.
WILL NOT SAG between supports.
Also Pegboard Fittings, Turntable and all other
Display Equipment

Write for details:—

WHITMARLEY LTD., KNUTSFORD ST., BIRMINGHAM, 12

Sally Pigtails

DRIANAPS^{REGD.}

NAPKIN LINERS

Allows the baby's urine to pass through, keeping
the baby dry and avoiding discomfort, soreness
and rash.

PACKETS OF 2
17" x 10" (approx.) **4/11** RETAIL

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Battle stations!

Victory V will be in the thick of it this season, with a strike-and-strike-again advertising campaign in the nation's press.

More and more people will be trusting in Victory V—
and trusting in **you** to have stocks available.

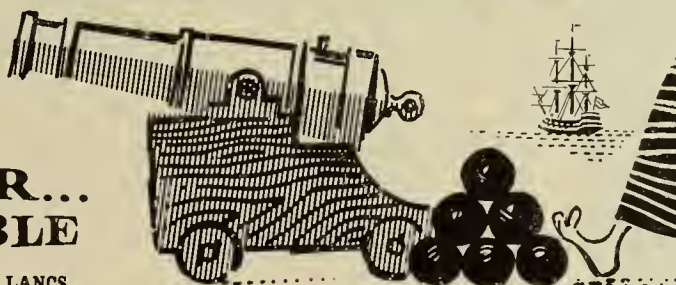
Victory V

LOZENGES AND GUMS

— for cold
journeys

**PROVED...
POPULAR...
PROFITABLE**

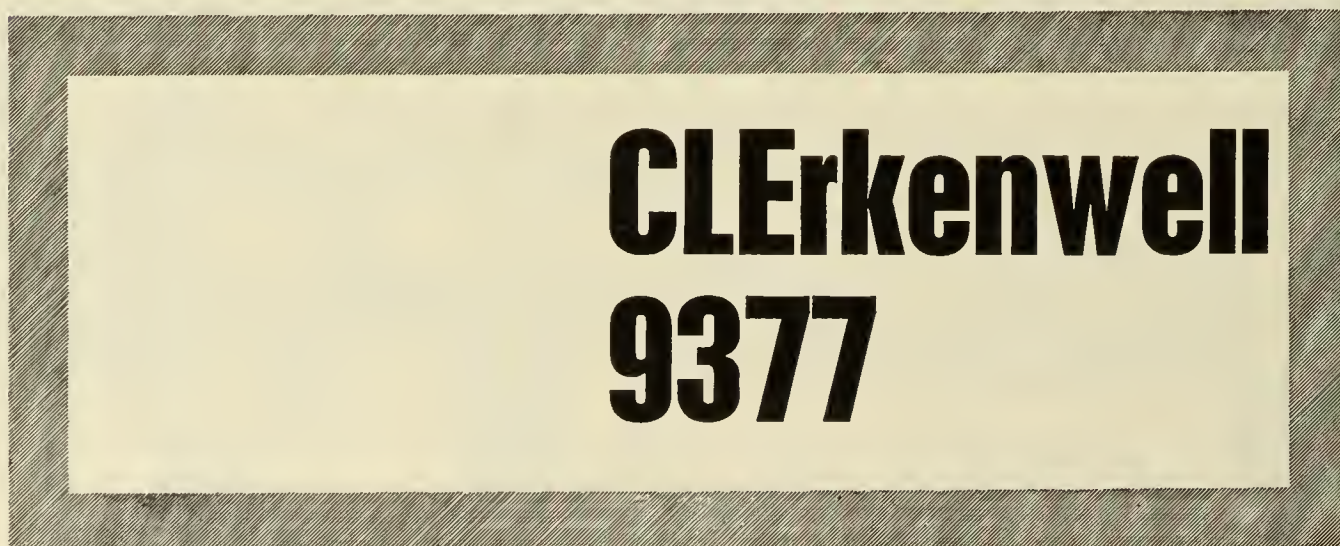
VICTORY FACTORIES · NELSON · LANCs.





We have installed a new fully automatic telephone exchange in our LONDON WHOLESALE DEPOT at Graham Street, London N.1. This will enable us to provide an improved service to our customers.

From 7th October 1963 the new telephone number of this Depot will be



For all other departments of B.D.H., please continue to use CLErkenwell 3000.



ANNOUNCEMENT

In celebrating their 10 years of association; the Directors of André Philippe Limited—Mr. L. R. Silverstone and Mr. R. Morris, take this opportunity to thank all their chemist friends for the help, support and encouragement over the past years.



ANDRÉ PHILIPPE LIMITED

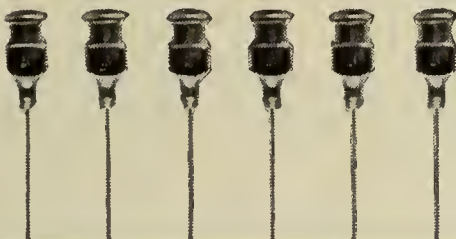
71-71B GOWAN AVENUE · FULHAM · LONDON · SW6

Telephone: RENown 2194-2397



ALL THESE IN THIS

You can recommend a MACROM Syringe Case with confidence because it:



- * holds a 1cc or 2cc syringe capacity of any make or design.
- * holds six needles of any make or design.
- * is completely spirit proof.
- * is styled in a modern manner.
- * is unbreakable.

Retail Price 17/-
Trade Price 12/9
From your usual
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from:

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Time for the right name

These selected, profitable preparations are excellent late autumn and winter lines :



- ★ Antitussive Linctus
- ★ TYROCO (Throat Lozenges)
- COLD DISCS**
- ★ Baby Vapour Rub
- ★ Children's Aspirin
- ★ RHEUMATIC CREAM

★ Available under Chemist's Own Name — Own Brand pack with counter display cards.

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BRAND NEW STEEL SHELVING HEAVY GAUGE

Free delivery. N. Scotland, Ireland, I.O.M. 10% extra.

71" high X 34" wide, 12" deep with 6 shelves as illustrated. C.W.O. or C.O.D.

60/-

Each shelf will hold over 3 cwt. Shelves adjustable every 2". Stove enamelled dark green. White enamel units 50% extra.

Height	Width	Depth	No. of Shelves	Price	Price each 3 or more	Extra Shelves
71"	34"	9"	6	58/-	56/-	7/-
71"	34"	12"	6	60/-	58/-	8/-
71"	34"	15"	6	69/-	67/-	9/6
71"	33 1/2"	18"	6	81/-	79/-	11/6
85"	34"	12"	6	68/-	66/-	8/-
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HANDY DRAWER UNIT BRAND NEW

42" high, 13" wide, 12" deep. 20 DRAWERS: 5" wide 3" high, 11 1/2" long. Stove enamelled dark green. Direct from manufacturers. Write now for list of other sizes.

£7.15.0

C.W.O. or C.O.D.

Buy direct from the manufacturers.
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EXPORTERS OF STEEL SHELVING



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ELECT., SUPER, SELECTED, B.P., S.C.
are now being milled by a new technique
giving unsurpassed quality and freedom
from impurities.

Samples are always available on request.

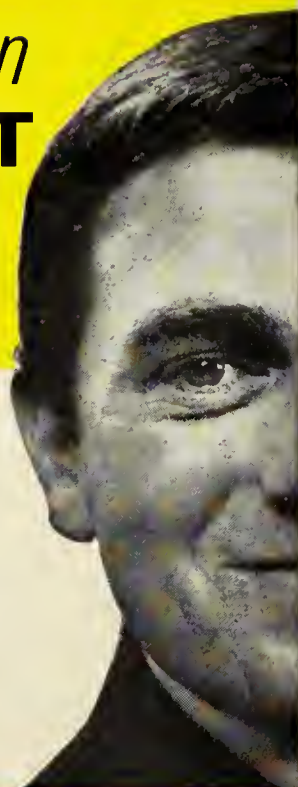


There's a model for every man in
**THE WORLD'S GREATEST
 RANGE OF
 ELECTRIC SHAVERS**



PHILISHAVE
ENVOY with *Floating Heads*

In this new luxury shaver, 'Philishave' Rotary Action and Floating Heads give even more efficient 'Personal Touch' shaving. AC/DC 100-130v. and 200-240v. **£8-12-6**



PHILISHAVE
 with *Floating Heads*

The superbly successful Floating Heads shaver that is now offered at an even more attractive price. AC/DC 100-130v. and 200-240v. **£7-15-0**



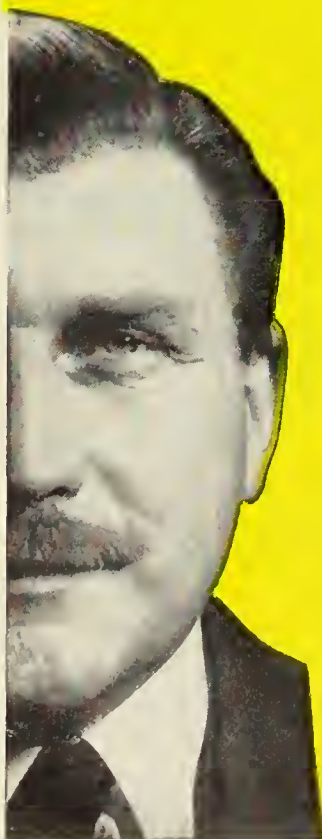
PHILISHAVE
superjet

Built for speed and efficiency as well as good looks, the Superjet offers magnificent shaving value. AC/DC 110-130v. and 200-250v. **£6-6-0**



PHILISHAVE
Battery Model

Any time, anywhere, it gives a full month of daily Rotary Action shaving on two small torch batteries 3v. DC only. **£5-12-6**

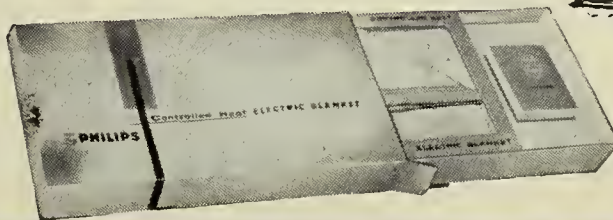


EVERYONE LIKES A PHILIPS BLANKET

THE SUPERB NEW PHILIPS CONTROLLED HEAT BLANKET

The new extra-luxury underblanket with 'dial-for-comfort' control. By means of a highly sensitive bedside control unit the user can dial precisely the temperature preferred. As a guide, there are nine clear markings on the dial — softly illuminated while the blanket is switched on. There is continuous temperature monitoring of the whole heated area of the blanket. Should any part become overheated due to creasing or any other cause, the blanket is automatically switched off. With high settings to warm the bed quickly, low settings for bed-airing or to take the chill off on cool summer nights, it's ideal for use all the year round. The warm fleecy blanket is made in gold. 230 - 240v. AC only.

Type EA 1215 Single 60" x 28" £7.15.0 Type EA 1225 Double 60" x 48" £9.17.6



NEW PHILIPS THREE HEAT STANDARD BLANKET

Offers the incomparable comfort of a really efficient electric blanket plus three heat control, together with optional temperature settings and an illuminated switch. The double-size blanket offers dual-type switching, so that, if required, one side of the bed can be switched off. The Philips principle of 'Natural Heat Balance' prevents overheating in normal use. 230 - 240v. AC only.

Type EA 1214 Single 60" x 25" £5.19.6. Type EA 1224 Double 60" x 43" £8.8.0

PHILIPS STANDARD BLANKET

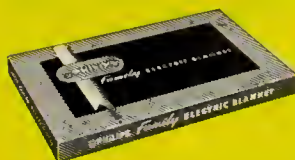
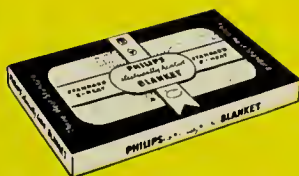
The popular blanket that gives the comfort of all-over warmth in bed at extremely reasonable cost. Made of soft, warm material in a choice of two colours: gold or pink. Each blanket has a double pole on/off switch. The Philips principle of 'Natural Heat Balance' prevents overheating in normal use. 230 - 240v. AC only.

Type EA 1210 Single 60" x 25" £5.4.3. Type EA 1220 Double 60" x 43" £7.12.9

PHILIPS FAMILY BLANKET

The highly successful blankets that offer truly sensational value. Made from satin-bound cotton-rayon material in a warm pink colour. Each blanket has a double pole on/off switch that completely isolates the blanket from the supply and can be operated from the bed. Philips principle of 'Natural Heat Balance'. Effective new pack. 230 - 240v. AC only.

Type EA 1212 Single 50" x 26" £3.16.4. Type EA 1222 Double 50" x 42" £4.18.0



FROM



PHILIPS — the friend of the family

kistani immi
Already the
cine—has contr
may herald the
the fight against
It is the first sy
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discovery of vacc
In The Lancet fou
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Madras.
The drug was gi

**13 million sore throats
may be relieved by this
ZUBES advertisement
in the DAILY EXPRESS
this winter**

last year
such safer tha
controlled epidem
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today calls the dr
-57—the most sign
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1796.
report on tests th
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British troop
retreated in wild
a force of 8,000 and he
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crushing defeat. Bu
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steak for the British
uating team.

FOOTBALL

YITHIN 24 hours the fight
was resumed. But neve
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les and courtesies between
two sides-forgotten.
rivalry on the Wester
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batants held their rifle
the other the hand of
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he strange story of the mo
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ingly told in a bod
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IMANJARO (Weidenfel
he most extraordinary
acter to emerge from the
paign is the German Cor
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ow-Vorbeck, a broad, rudd
d Prussian of 45.
e refused to allow h
ers to loot civilians eve

SAW THROAT?



GO SUCK A ZUBE

ZUBES ARE BEST
FOR THROAT OR CHEST
HANDY POCKET PACK 6'
VACUUM TINS 1/1'

Halted

he trial proved that the dr
ested development of
ase in people who w
cubating" it—even at v
stages when vaccinati
ld have been useless.
he men who carried out
dras tests are Dr. De
er of the Wellcome Foun
n, Professor Allan Downie
rpool University and t
iversity of Colorado scienti
ne St. Vincent and Hen
upe.
he Wellcome Foundati
ch developed the drug
aboration with the Courta
stitute of Biochemistry, s
erday that it hoped a sm
e would protect for up
e weeks.
ork is now going on to
he drug is useful in treat
ents actually suffering fr
ective against one.
r. Donald Steel, an offic
Wellcomes, said stocks
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the market within fo
nths. The cost might be l
e-comparable with the c
vaccine.
le added: "This is a ma
p towards eradicating s
as a world-wide disease.

Advantages

though it is unlikely
lace routine immunisat
vaccine, advantages brou
the drug may include :—
safer way to halt
belief for countries like In

**CAMPAIGN STARTS
IN NOVEMBER**

... millions of others may be helped
because of big space advertising in
all the top-circulation newspapers.

STOCK ZUBES BIG—SELL ZUBES BIG

VASELINE HAIR CREAM

PRICE CHANGES

The price to the public of

VASELINE HAIR CREAM
UP from 4 November 1963

*But trade prices remain the same
until that date*

ORDER NOW AT CURRENT PRICES AND GAIN AN EXTRA
1/- A DOZEN ON THE JUNIOR AND STANDARD JARS,
3/- A DOZEN ON HOME DISPENSER REFILLS AND 4/- A
DOZEN ON HOME DISPENSERS.

	NEW RETAIL SELLING PRICES
Junior Jar	1/10
Standard Jar	2/9
Home Dispenser	8/3
Home Dispenser Refill	4/-

SCOTTIES PRICES DOWN!

Following the recent announcement of the reduction in trade buying prices of SCOTTIES,* Bowater-Scott are pleased to confirm the following suggested consumer prices:

Scotties	Family 200's	3'2^d	(4d reduction)
Scotties	Economy 150's	2'6^d	(3d reduction)
Scotties	100's	1'9^d	(New pack)
Scotties	Regular 50's	1'-	
Scotties	King Size 100's	2'6^d	
Scotties	Pocket Pack	4^d	

These new prices and powerful advertising in the national press will bring you two benefits—better value for your customer—increased turnover for you.

* T.M. OF THE SCOTT PAPER CO.



BOWATER SCOTT

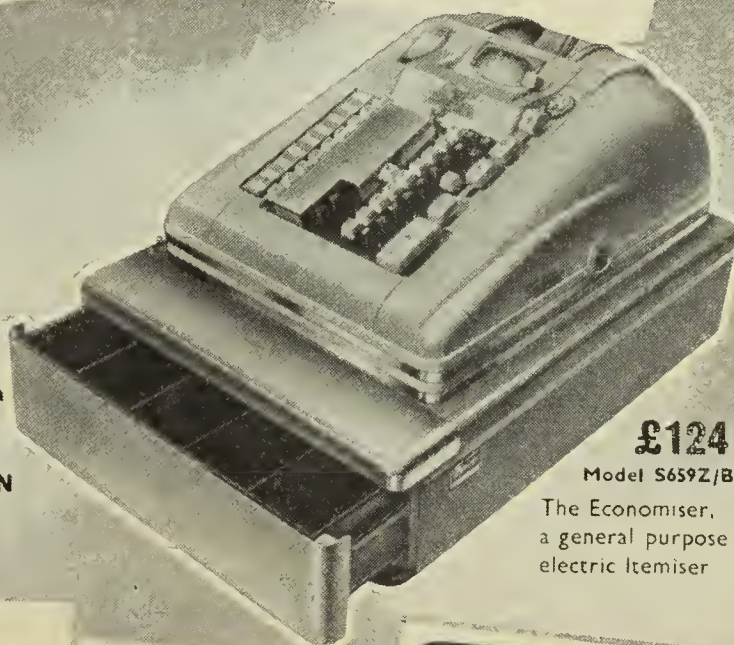
PAPER FOR
PROFIT



A complete NEW range of **REGNA** CASH REGISTERS

- * Automatically added receipt
- * Speed with simplicity
- * Printed grand total of day's takings
- * Ease of recording credit sales
- * Total locking device
- * Easily and quickly converted to decimalisation
- * "EASI-VIEW" Illuminated Registration ensures easy checking

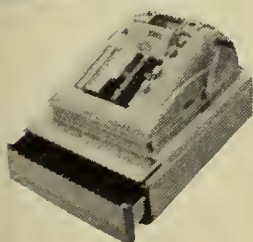
SOME OF THE OTHER MODELS IN
THE REGNA RANGE



£124

Model S659Z/B

The Economiser,
a general purpose
electric Itemiser



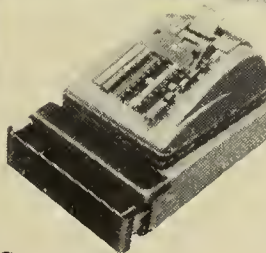
£72.10.

The ideal cash register for
HAIRDRESSERS, RADIO
SHOPS, etc.



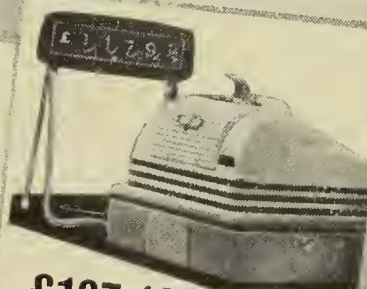
£145

The machine designed
for GARAGES and CAR
ACCESSORY SHOPS



£169.10.

The "Regnomatic" De Luxe
"Big Store" efficiency at
small store cost



£197.10.

The Regna V.I.P.
An electric machine with visual
indication. For DEPARTMENT
STORES, DRAPERS, CLUBS, etc.

Fully guaranteed service available
throughout the U.K. by Factory-
trained, skilled service engineers.

REGNA



TO THE REGNA CASH REGISTER CO.

Hillgate House, 26 Old Bailey, London E.C.4. Tel: CITY 6912/6

Please arrange for me to see a demonstration of the 'ECONOMISER'
and/or post further details of this and other models.

NAME

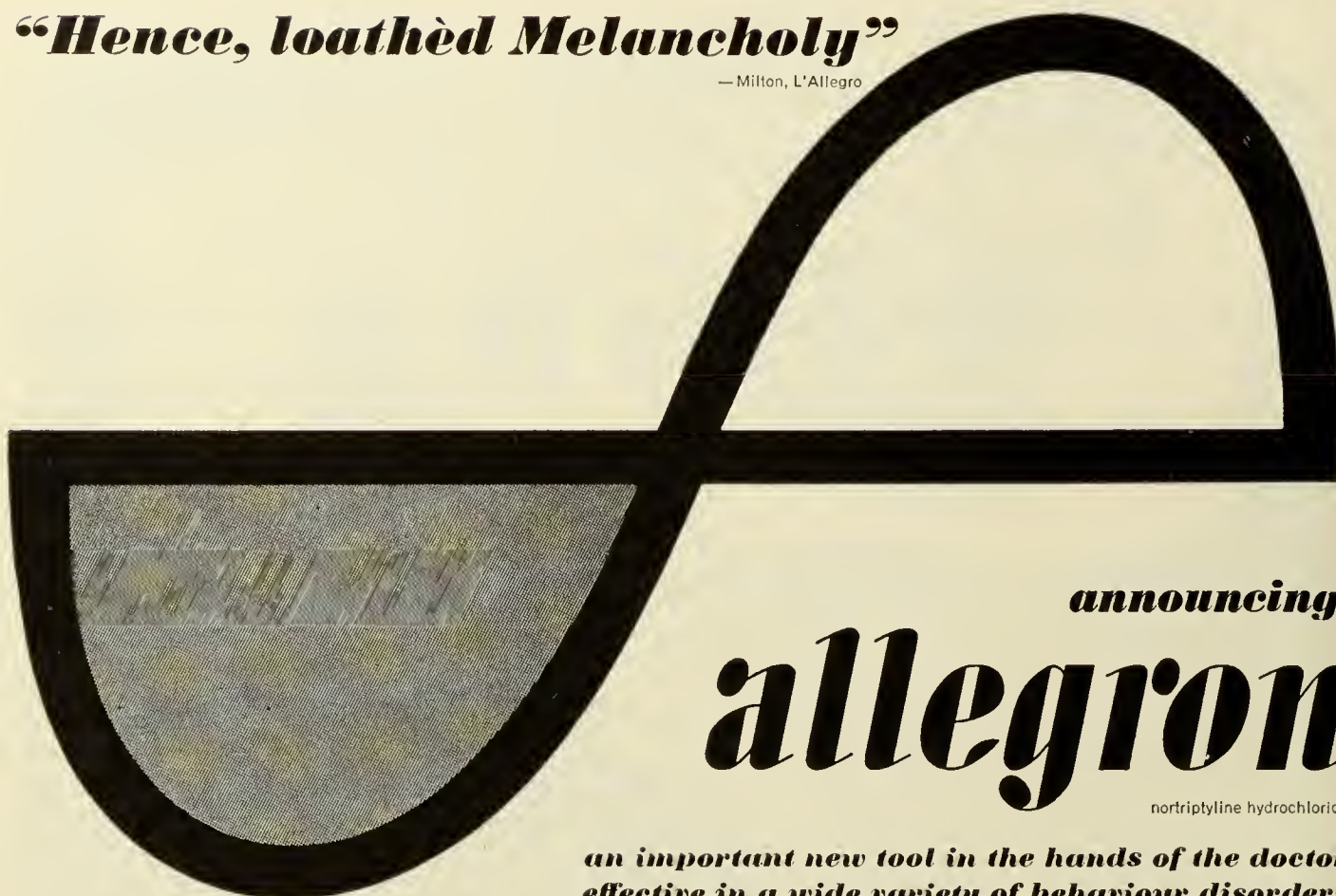
ADDRESS

BUSINESS

(B.B)

"Hence, loathed Melancholy"

— Milton, L'Allegro



announcing

allegron

nortriptyline hydrochloride

***an important new tool in the hands of the doctor
effective in a wide variety of behaviour disorders***

ALLEGRON is a new iminodibenzyl derivative which has both anti-depressant and tranquillizing properties. It is an effective psychotropic agent for the treatment of mental depression, anxiety, hostility, and psychosomatic disorders—particularly those of the gastro-intestinal tract. It is also a useful adjunct to psychotherapy. The action of the drug has a high degree of predictability coupled with a low incidence of side effects. ALLEGRON is *not* a monoamine oxidase inhibitor.

Presentation :

ALLEGRON is supplied as:

	<i>Packs</i>	<i>Trade Price per pack</i>
Tablets 10 mg.	25	2s. 10d.
	100	10s. 8d.
	500	47s. 0d.
Tablets 25 mg.	25	5s. 10d.
	100	21s. 4d.
	500	94s. 0d.
	<i>Bottles</i>	
Liquid 10 mg. per 5 ml.	115 ml.	4s. 6d.
	(4 fl. oz. approx.)	
	500 ml.	14s. 10d.
Prices subject to Purchase Tax		

Identification :

10mg.

Yellow: unscored



actual size

25mg.

Orange: scored




actual size

For further information apply to



DISTA PRODUCTS LIMITED SPEKE LIVERPOOL 24
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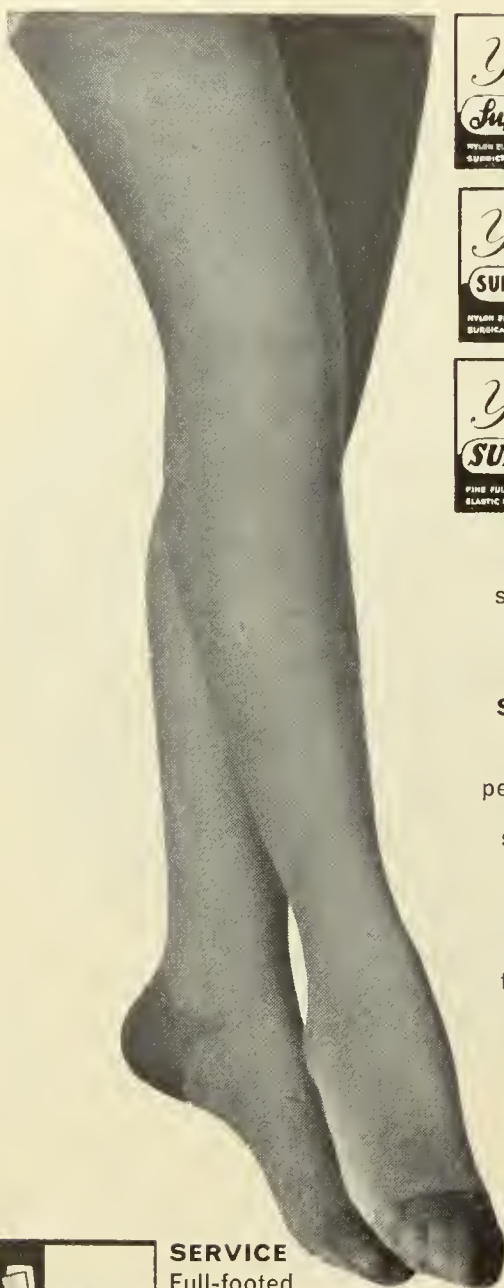
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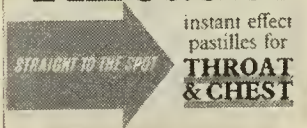
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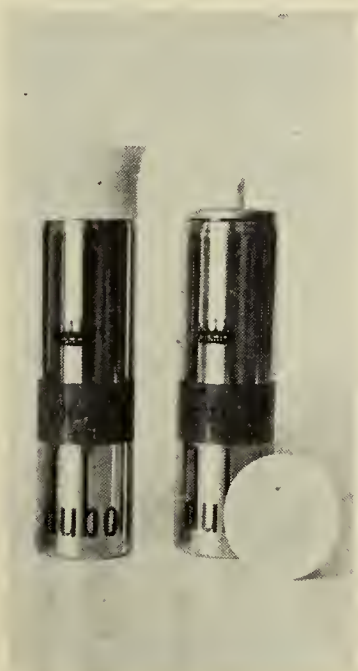
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THE CHEMIST AND DRUGGIST

ESTABLISHED 1859

THE WEEKLY NEWSPAPER FOR PHARMACY
and all sections of the drug, pharmaceutical,
fine chemical, cosmetic, and allied industries

*Official organ of the Pharmaceutical Society of Ireland
and of the Pharmaceutical Society of Northern Ireland*

Volume 180

October 12, 1963

No. 4365

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The CHEMIST AND DRUGGIST

Volume 180

OCTOBER 12, 1963

No. 4365

Prescription Forgeries

EXECUTIVE COUNCIL URGES A SAFEGUARD

AN effort to make prescription forgeries more difficult to perpetrate is being made by London Executive Council.

In a letter being sent to general practitioners on its lists, the Council asks that when, in certain circumstances, habit-forming drugs are prescribed on EC10 forms, both figures and words should be used for writing the amount to be dispensed and the strengths of tablets. The circumstances suggested by the local medical committee are (a) when a doctor knows the patient is a drug addict; (b) when the doctor knows that the patient has been convicted for obtaining drugs improperly; or (c) when he has no previous knowledge of the person treated. The letter also reminds doctors that the Council has a record of over 300 persons in London who have been reported on by the police for obtaining drugs by devious means. Further concern at prescription irregularities has been expressed by the chairman in a foreword to the Council's report for the year 1952-63, particularly the increasing number of thefts of prescription forms by members of the public for the purpose of obtaining drugs to which they are not entitled. Cases during the year showed a 60 per cent. rise over the previous number. It is now the Council's policy to put all such cases in the hands of the police. The Council is also concerned at the difficulty doctors are experiencing in obtaining surgery and residential accommodation at reasonable prices. "It may well be necessary for doctors to be given grants or a 'London weighting' when they find themselves in this position," says the report. The Council hopes to put concrete proposals before the Minister of Health during the forthcoming year. On the drug testing scheme the chairman says that, since it was amended to enable cases of trifling error to be dealt with without a hearing, the services committee has had only a small number of tests justifying an oral investigation: "The standard of dispensing in London is obviously very high."

method of retailing known as 'self-service' has developed rapidly. This has made it necessary for the Council of the Pharmaceutical Society to state their views on the implications for pharmacy of this system of selling, whereby the customer has direct access to goods without reference to anyone except a person acting as a cashier.

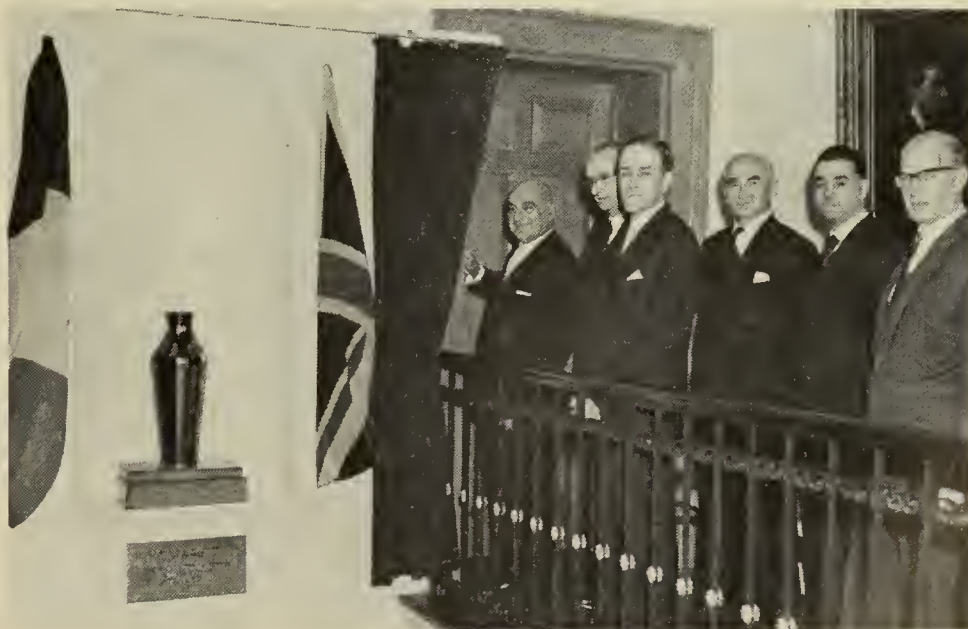
In the opinion of the Council it is in the public interest that, as a general rule, medicines should only be sold through pharmacies, and this view was clearly stated in the evidence given to the recent Interdepartmental Working Party on Legislation Concerning Medicines. It is true that it has become a common practice in pharmacies to display some medicines on the counter, but they may not be purchased without reference to an assistant. Any further reduction in the control by the pharmacist or his trained assistant over individual sales of medicines is not desirable. Medicines should not be offered for sale in pharmacies by self-service, or on a comparable basis of self-selec-

tion. Self-service is usually associated with supermarkets, a term for new types of businesses which range from modified departmental stores to indoor markets housing several businesses, separately owned. The system of ownership is not new and only the style of business is different. Modernisation of pharmacies and business methods are clearly in principle desirable, but any arrangement which tends to reduce the professional status of pharmacy is to be deprecated. Pharmacies should not be established in the indoor-market type of supermarket as there can be no assurance that the owner of the pharmacy has any influence or control over the immediate environment, which may not be in keeping with the character of pharmacy. Where the supermarket is of the departmental store type—that is, under one ownership—it should be apparent to the public that the pharmacy is a separate department, and notices or titles which suggest that medicines are included in any self-service facilities should not be used. Moreover, the environment in which the pharmacy department is situated should be in keeping with the character of pharmacy."

French Pharmacists' Gift

SEVRES VASE FOR SOCIETY'S HOUSE

FRENCH pharmacists have, as a token of friendship, presented to the Pharma-



Mr. Frank Arnal unveils the Sevres vase presented to the Pharmaceutical Society of Great Britain by French pharmacists. With him are Mr. C. W. Maplethorpe, Professor M. F. Guyard, Sir Hugh Linstead, M. George Viala (secretary, *Ordre National des Pharmaciens de France*) and Mr. E. A. Brocklehurst (chairman, British section, Franco-British Pharmaceutical Commission).

Self-service of Medicines

STATEMENT BY SOCIETY'S COUNCIL

A STATEMENT issued by the Council of the Pharmaceutical Society on October 8 says:—"In recent years the

ceutical Society of Great Britain, for the adornment of its recently restored premises at Bloomsbury Square, a magnificent blue and gold Sèvres vase. The presentation was made on October 1 by M. Frank Arnal (president of the *Ordre National des Pharmaciens de France*), in the presence of the new French Cultural Counsellor (Professor M. F. Guyard). M. Arnal shares with Mr. Eric Brocklehurst, Hull (a past-president of the Pharmaceutical Society) the chairmanship of the Franco-British Pharmaceutical Commission. It will be recalled that, when the French Society moved into their new offices in Paris, their British colleagues gave them, for their Council chamber, an early nineteenth-century English-made clock.

Fluoracetamide

MANUFACTURER ISSUES STATEMENT

RENTOKIL Laboratories, Ltd., sole European manufacturers of fluoracetamide, issued on October 7 a statement about reports suggesting that the chemical had been responsible for deaths of cattle at Smarden, Kent, and at Merthyr Tydfil, Glam (see *C. & D.*, October 5, p. 358). The company began investigations immediately on hearing the reports, and offered assistance to the Ministry of Agriculture in its own investigations. The statement points out that fluoracetamide was used as a rodenticide, at a concentration of 2 per cent. in pinhead oatmeal, only by local authorities and specialist pest-control companies in membership of the Industrial Pest Control Association. In that form it was used only in sewers and ships, where the operators had control of all means of access to the baiting points. At Merthyr Tydfil, several hundredweights of fluoracetamide rodenticide had been purchased by the Merthyr Tydfil Public Health Department in 1963, and its use there had been confined to sewers. A pony found dead was apparently sold for pet food by the local knacker, and analysis was reported to have suggested the pony had consumed an organic fluorine compound. It was also reported that the pony had been foraging on a refuse tip in the adjoining district of Rhymney, but the medical officer of health for the area declared that fluoracetamide had not been used in that district. Reports in May of deaths of livestock having access to water from a ditch passing through the Smarden factory premises caused the manufacturers immediately to take the precaution of collecting and disposing of elsewhere all effluents from their chemical processes. It was possible that effluent from the factory had accidentally found its way into the ditch and the company has offered to decontaminate any ponds and ditches that may have been affected. The work has already been commissioned on one farm and has been offered on others. The statement went on to say that fluoracetamide was present as a 1 per cent. solution in a systemic insecticide available to gardeners for use (after considerable dilution) on non-edible plants. That insecticide also contained a bittering agent, an emetic and a dye to minimise or obviate accidental in-

gestion. Furthermore it contained acetamide, which rendered it less toxic to animals. Fluoracetamide had also been used since 1959 as an agricultural insecticide for specific crops, and had been cleared for that purpose by the Ministry of Agriculture.

Handling of Mercury

PROPOSED NEW SAFEGUARDS

THE Minister of Labour has made a draft Statutory Instrument entitled *The Mercury Processes Regulations 1963* which provide for the safety, health and welfare of persons employed in factories in which any mercury process is carried out on or in which mercury or any mercury compound is stored. The regulations do not apply to (a) any factory in which mercury or mercury compounds are used in a sealed system or a container which, in either case, is totally enclosed or (b) any process specified below:—

- (1) the handling of materials or articles treated with mercurial slimicides or fungicides;
- (2) the use of mercury or mercury compounds for the purpose of chemical analysis, and their storage or transfer ancillary to such use;
- (3) the use of mercury to form a gas seal;
- (4) the use of control or measuring instruments containing mercury;
- (5) the installation, overhaul repair or transfer of any apparatus containing mercury where the temperature of the mercury is not raised above the general room temperature and such work is not carried on in the factory or by the same person in more than one factory, during a total of more than ten hours in any period of four consecutive weeks of which period of ten hours not more than five hours shall be in any week; and
- (6) the handling for less than one hour in any week of mercury or mercury compounds, other than ethyl or methyl mercury compounds, for any purpose other than the manufacture of articles consisting of or containing mercury or mercury compounds.

Special General Meeting

MOTIONS FOR DISCUSSION

FOLLOWING the preliminary notice last week (*C. & D.*, October 5, p. 357), that a special general meeting of members of the Pharmaceutical Society was to be held on October 30, at 7.30 p.m. at the School of Pharmacy, Brunswick Square, London, W.C.1, to discuss the proposed increased personal retention fee to £9, the Society have announced the following motions for discussion:—

1. "That this meeting is opposed to the proposed increase in the personal retention fee."

2. "That the Society should take the necessary steps to increase the premises retention fee in order to maintain their revenues."

Chemists' Retail Sales

STATISTICS FOR AUGUST

RECENTLY issued Board of Trade figures show that sales of chemists'

goods by independent retailers were 2.5 per cent. lower in August than in July, and 7 per cent. higher than in August 1962. Multiple retailers' sales were 1.8 per cent. higher in August than in July, and 11 per cent. higher than in August 1962. Sales by Co-operative societies were 5.7 per cent. lower in August than in July, but 4 per cent. higher compared with August 1962. The figures do not allow for receipts under the National Health Service.

IRISH NEWS

THE REPUBLIC

Council Election

TWO NEW MEMBERS RETURNED

RESULTS of the election of members to the Council of the Pharmaceutical Society of Ireland, announced at the Society's annual meeting in Dublin on October 7 were:—

ELECTED

R. J. POWER ...	675
J. P. O'DONNELL ...	674
M. COSTELLO ...	640
F. LOUGHMAN ...	631
T. HARTY ...	571
T. MILLER ...	531
M. MULREANY ...	525

NOT ELECTED

E. P. Kenny ...	410
M. F. Broderick ...	356

Messrs. Mulreany and Harty are newcomers to the Council, the latter having been co-opted at the September Council meeting but not yet taken his place. The election sees the defeat of the retiring member, Mr. M. F. Broderick.

Pharmacy College

£11,000 GRANT FROM GOVERNMENT

A GRANT of £11,000 is being made by the Department of Finance towards the College of Pharmacy for the year 1963-64, subject to the approval of the Dail. Making the announcement at the annual meeting of the Pharmaceutical Society of Ireland in Dublin on October 7, the president (Mr. D. J. Kennelly) said that the Department had accepted the recommendation of the Minister for Education on the matter. The grant brings to a satisfactory conclusion protracted negotiations between the Council and both Departments.

Pharmaceutical Society

OFFICERS FOR 1963-64

THE Council of the Pharmaceutical Society of Ireland has elected the following officers for the year: *President*, Mr. D. J. Kennelly; *Vice-president*, Mr. J. P. O'Donnell; *Treasurer*, Mr. M. L. Cashman.

IRISH BREVITIES

THE Royal Dublin Society is holding a scientific and technical exhibition at Ballsbridge, Dublin, October 22-25.

LIMERICK pharmaceutical ball, in aid of the Pharmaceutical Society of Ireland's benevolent fund, is being held at the Royal George hotel, Limerick, on November 13. Tickets (30s. each) are obtainable from the secretary, Mr. M. Pennington, 34 O'Connell Street, Limerick.

NEWS IN BRIEF

SALES of Plymouth Co-operative Society's pharmacy department for the year ended September 17 were £429,324, an increase of £37,586 over the previous year.

GUIDANCE on equipment required for a department of medical photography and illustration is given in a recently published hospital equipment note (No. 19, H.M. Stationery Office, price 2s. 6d.).

THE *Secretary* to the pharmaceutical subjects group of the Royal Society of Health, for the year commencing January 1, 1964, is Mr. Neville Santer. Messrs. D. J. Gibson (*Chairman*) and D. M. Jennings (*Treasurer*) continue in office.

THE Society of Apothecaries of London, Black Friars Lane, Queen Victoria Street, London, E.C.4, state that the 1963 British Pharmacopœia and British Pharmaceutical Codex will not be used in the examination for dispensing chemists until October 1964.

THE Wellcome Trustees have appointed, as additional trustees, Lord Franks (Provost of Worcester College, Oxford, and former chairman of Lloyds Bank), from October 1, and Professor R. H. S. Thompson (Guy's Hospital), from December 1.

A ONE-DAY seminar to discuss the recruitment and selection of suitable staff for the retail distributive trades is being held at the Connaught Rooms, Great Queen Street, London, W.C.2, on November 13, by the Industrial Welfare Society, Robert Hyde House, 48 Bryanston Square, London, W.1.

THE Fire Protection Association, Aldermay House, Queen Street, London, E.C.4, is arranging a national conference at the Connaught Rooms, London, February 27-28, 1964, at which papers will be read on fire extinguishing apparatus, open-plan factories, action in the event of fire, and how to reduce the cost of fire.

THIEVES took advantage of scaffolding to break into the Conway Street pharmacy of Mr. H. H. Le Quesne, M.P.S., St. Helier, Jersey, Channel Islands, recently. They entered by the skylight and stole £4 in cash and twenty-one packets of razor blades. It was the second break-in at the pharmacy this year.

A FILM, "Bridges Into Europe," shown in London on October 7, illustrated attractively, by diagram and documentary, the advantages of Cologne as a centre well placed, both geographically and through its ten international trade fairs, for promoting trade among European countries, whether within the European Economic Community, the European Free Trade Association, or neither. Dr. R. Krugmann (director, Cologne International Trade Fairs) gave an introduction.

SPORT

GOLF.—SOUTH LONDON AND SURREY PHARMACISTS' GOLFING SOCIETY. Twenty-seven members attended the meeting at Addington golf club on October 2 when a Stableford competition was played for the Cupal prize. *Results:* 1, C. J. Martin (Ifield), captain, 35 points; 2, M. Lewis (Hirley Park), 32 points; 3, E. Jobling (Ruislip), 32 points.

TOPICAL REFLECTIONS

By Xrayser

Free samples

An extremely interesting situation has arisen in connection with the current advertising campaign sponsored by the Vick organisation, in which coupons are being distributed accompanied by a letter which invites the recipient to take the coupon to the chemist who "has your sample waiting for you." The preparation contains a Part I poison and may consequently be handled only by a pharmacist. (The preparation, the public has been told, contains the special ingredient "Silentium"). My personal reaction to the campaign is that I shall take no part in it. I refuse to have my qualification exploited by others for commercial purposes. I feel also most strongly that my participation in such a scheme would, of necessity, imply that the product had my full confidence and approval, and that would not necessarily be so. Those were the points which immediately occurred to me. The Council of the Pharmaceutical Society has had the matter under consideration and has issued a statement (p. 357). The whole thing bristles with difficulties of one kind and another. It is true, as the statement says, that under such an advertising scheme "medicines are distributed that may not be required." That may equally well apply to medicines which are bought over the counter in response to advertisement in the Press or on television. Point (b) says: "A pharmacist is expected to give out samples without discrimination, and his professional function is thus by-passed." Is there, we must seriously ask, any more or any less discrimination involved in the *sale* of such a preparation? The customer may ask advice while making the purchase, but that does not preclude the possibility of the "sampler" asking the same questions. Point (c): "The public are induced to regard medicines in the same light as other goods such as groceries." It has to be admitted that the widespread distribution of proprietary medicines (though not the cough mixture in question because of its ingredients) whereby the housewife can buy her medicines along with her bacon, her cheese, her jam and her tooth-paste, must lend support to the theory that they are just "other goods." But that is not to argue that the pharmacist should accept that position.

Other points

The complaint in point (d) of the Council's statement is valid, and from my own experience true. There have been difficulties occasioned by the public having been led to believe that every pharmacist was participating in the scheme. The position is not dissimilar from that obtaining when the advertisement informs the public that the product is obtainable from all the *good* chemists. The last point made in the statement is that the effect of advertising over which pharmacists have no control is increased by the issue of free samples. The fact, as stated, is true, but advertising of all kinds frequently invites the reader to send direct to the manufacturer for free samples. The difference in this particular case is that the preparation contains a Part I poison, and the co-operation of the pharmacist was essential to the success of the scheme. I decline to co-operate. But, while most strongly approving of the tenour of the Council's advice to its members, I wonder if the matter can be left where it is?

Distribution

What is the correct attitude to adopt if, on informing the customer that no samples are available, that customer asks if he may purchase a bottle? He has been influenced by the advertiser's description and, if the article is in stock and no questions are asked, the only difference in the transaction appears to be that money changes hands. The question the individual pharmacist has to ask himself is whether he can, with full professional conscience, lend his status to the sale of any or every proprietary preparation, regardless of its content and regardless of its claims. That, at the moment, is a matter for individual discretion, for there is no question but that advertising creates a demand which results in "medicines being distributed which may not be required." The Council has started something that is far-reaching and complicated. Meanwhile I refuse, for many good reasons, to co-operate in free sampling.

State of the Public Health

CHIEF MEDICAL OFFICER'S REVIEW OF 1962

GENERALLY speaking, the quality-control procedures undertaken by drug manufacturers were thorough and were more than sufficient to ensure the reliability of their products in clinical use, states Sir George Godber (Chief Medical Officer, Ministry of Health) in his annual report "On the State of Public Health, 1962" (H.M. Stationery Office, 12s. 6d.).

The existing system of quality control, in the opinion of Sir George, was complex but could give satisfactory results against a background of conscientious testing done as a routine by the producers of most of the drugs used. Testing for inherent toxicity and for therapeutic efficacy had not always kept pace with the extremely rapid progress in pharmaceutical manufacture and, says the report, "It may be impossible at the present time to make an accurate appraisal, either clinically or in the laboratory, of the actual risk of the teratogenic effect in man from a particular drug. . . . While scrupulous concern for safety must be exercised in the introduction of new drugs, it is important also to avoid a system so cautious that it obstructs progress to an extent which withholds far more benefits than it confers. To eliminate all risks would be to eliminate all progress."

However, Sir George does give the warning that "The restrictions available under existing extremely complicated legislation are not readily and promptly applicable to new substances that might be offered as medicines either to doctors or the general public."

During the year under review the Standing Joint Committee on the Classification of Proprietary Preparations assigned about sixteen drugs to the two categories "N" and "P." Most of them were drugs for the treatment of infections or infestations or drugs used in the alleviation of mental disorders. Of the remaining drugs classified by the Committee in 1962 two were cytotoxic agents and the others included a compound that interfered with the metabolism of alcohol; a cream to protect against ultra-violet light; and the enzyme penicillinase, which could be used clinically to remove penicillin rapidly from the body if its presence proved to be detrimental rather than beneficial. The report discusses the problems of chemicals in foods and the methods by which agricultural, horticultural and food storage pesticides were now dealt with under a voluntary, but comprehensive, scheme agreed between the Ministry of Agriculture and the manufacturers. "Notwithstanding all these precautions," it says, "suspicion persists in some quarters that, in various insidious ways, harm may arise from the extensive use of toxic chemicals in agriculture or animal husbandry and that the consumer is not afforded adequate protection by the controls at present exercised. One difficulty is that, scientifically speaking, an assurance of complete safety can never be given.

The situation is, of course, the same as that found in many other aspects of community life, such as railway travel, domestic electrical supplies, heating systems and so on. Moreover, it is always far easier to make unsubstantiated charges about possible dangers than it is to assemble the evidence necessary to refute them."

During 1962 there was a decline, compared with 1961, of 7 per cent. in mortality from tuberculosis, and decreases in the numbers of deaths from diphtheria, whooping cough, syphilis, poliomyelitis, dysentery and influenza. Deaths from cancer during 1962 reached 100,000 for the first time, 23 per cent. of them of the lung and bronchus (double the number recorded from that cause in 1950). Whooping cough had become a much smaller hazard but still menaced children in the first year of life.

Cardiovascular diseases and diseases of the respiratory system were still among the chief causes of death. Mortality rates for both were influenced by the weather and by epidemics of influenza and other infections, but the number of people dying of bronchitis remained consistently high.

Cases of acute poliomyelitis were at their lowest total, except for 1918, since notification began in 1912. The feature of 1962 was the virtual elimination of the seasonal increase in summer and autumn. The long campaign for vaccination appeared to have brought the country within sight of the elimination of the disease.

Bronchitis was the third most common cause of death in men over thirty, being surpassed only by arterio-sclerotic and degenerative heart disease and by vascular lesions affecting the central nervous system. Evidence was strong that environmental factors were all-important in chronic bronchitis, but a constitutional element in susceptibility to the condition was likely. The two most important causative factors disclosed by epidemiological research were cigarette smoking and atmospheric pollution. The evidence incriminating cigarette smoking was "overwhelming."

On dental health the report states that trials of brands of tooth-paste containing stannous fluoride were being made on groups of school children but it would be three or four years before their effectiveness could be reliably assessed.

LECTURES FOR HOSPITAL PHARMACISTS

South-west Metropolitan Committee's scheme

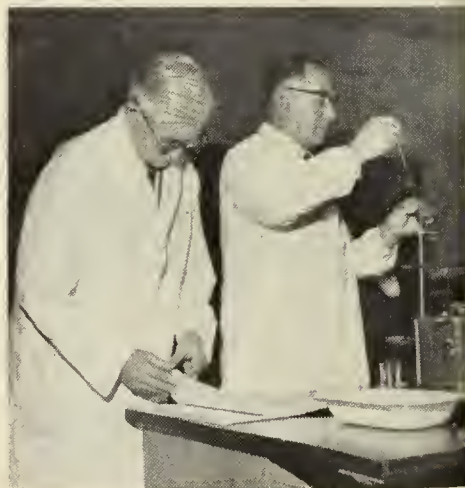
A DAY-RELEASE course in pharmacology and physiology, for pharmacists who qualified before those subjects were included in the curriculum, has been arranged at Ewell County technical college by the South-west Metropolitan Hospital Pharmacists' Committee.

The Committee's report for the year 1962-63 says that, because the number of applicants exceeded the number of places available, a second course would be necessary. It would start in October 1964. The course, comprising thirty weekly whole-day sessions, follows the announcement of a scheme for training dispensing assistants in the Region (see *C. & D.*, September 28, p. 331).

Most important of the Committee's functions is still held to be the operation of a joint contracting scheme for drugs. That has led, says the report, to prices ruling in the area remaining "consistently lower than those operating in any other region in the United Kingdom." Total estimated value of contracts made during 1962-63 was about £450,000 and savings to the Regional Board of about £45,000 are claimed. On quality control, the report says that officers visited contractors' premises to satisfy themselves as to the conditions under which materials purchased were produced, but time limited the number of visits possible. The Committee hopes the Ministry of Health will initiate action to ensure minimum standards of quality control at source, and of inspection and supervision throughout each process. With that in mind, the Committee will in future accept tenders only from companies that have given proof (a) of

their *bona fides* as traders or agents and (b) of their analytical facilities.

Two new ventures for reducing costs are given under the head "The Wandle Valley Scheme." Bulk supplies of certain drugs are purchased by the Board at "unusually low prices" and tabletting is carried out by a "professional tablet-maker." Drugs purchased in that manner are distributed from a central pharmacy store at Wandle Valley hospital through the medium of the regional laundry service, and savings to date are estimated at £10,000. The same store redistributes drugs surplus to the requirements of the hospitals.



BACK TO COLLEGE: Messrs. R. M. Armour (senior pharmacist, St. Luke's hospital, Guildford) and S. L. Barrow (group chief pharmacist, Farnham hospital, Farnham) bring out their notebooks again for the physiology and pharmacology course organised by the South-west Metropolitan Hospital Pharmacists' Committee.

LEGAL REPORTS

Tetracycline Patents

IN the Chancery Division of the High Court on October 2, Mr. Justice Lloyd-Jacob adjourned, to a date to be fixed, an application by the Pfizer Corporation for an order against D.D.S.A. Pharmaceuticals, Ltd. Mr. John Whitford, for Messrs. Pfizer, said they sought an injunction to restrain infringement by D.D.S.A. Pharmaceuticals of two Pfizer patents relating to the antibiotics tetracycline and oxytetracycline. Time was needed to consider the considerable volume of evidence received from the respondents, and an undertaking was given to file any evidence in reply within fourteen days. The case would occupy one day. The judge said that the matter could be heard on the first available day after the expiration of the fourteen days—possibly on October 18.

Manager Fined

AFTER pleading guilty to four charges of making a false entry in the till roll, Charles Laurence Moores, 220 Dalston Lane, Hackney, was at London Sessions recently fined a total of £60. He pleaded not guilty to four charges of stealing 10s. from his employer, Briggs (Cash) Chemists, Ltd., 197 Hoxton Street, London, N.1. The case

was first heard at Old Street magistrates' court (see *C. & D.*, September 7, p. 218). In cross-examination by the defence a police official said it was discovered that a woman had been dipping into the till but she had been dealt with at the magistrates' court for larceny and was fined £10. In mitigation, defending counsel said that Moores had been rather "woolly" over the accounts and had not realised that a woman employee was taking money from the till. When discrepancies arose he thought he was responsible for faulty accountancy. To make up the deficiencies he had under-rung the till. There was no money sticking to his fingers and he now had to be dealt with by his disciplinary professional body. Moores was allowed one month in which to pay the fine, with an alternative of one month's imprisonment, consecutive on each count, in default of payment.

Injunction Granted

IN the High Court on October 8, J. R. Geigy, S.A., Basle, owners of a patent covering the manufacture of phenylbutazone, a product sold by them under the trade name Butazolidin, were granted until trial of an action an injunction restraining D.D.S.A. Pharma-

ceuticals, Ltd., Portman Square, London, W.1, from distributing in the United Kingdom tablets of the drug made by a process infringing the patent. The defendants denied infringement and claimed that the patent was invalid. The balance of convenience was against an injunction. For Messrs. Geigy, it was said the drug sold in Britain was made under patent No. 646597 dated April 10, 1948. The first alleged infringement was a sale by D.D.S.A., on May 27, of supplies of the drug obtained from an Italian firm which had said that the drug had been made under an Australian patent, and later under a Portuguese patent. It was submitted that the process used by the Italians did not take the process outside the scope of the British patent. Counsel for D.D.S.A. submitted that there was no infringement because the percentage of infringing substance had been eliminated. He also maintained that the original specification was so wide that it could not be upheld and that an injunction would be against the public interest. Giving judgment, Mr. Justice Lloyd-Jacob said the patent related to pyrazolidine derivatives, of which phenylbutazone was one. For thirteen years the validity of the patent had not been successfully challenged anywhere. The only ground upon which validity was now questioned was upon the intrinsic evidence of the specification, but he found no *prima facie* reason that the specification should not be treated as a valid monopoly. It had been contended that an interlocutory injunction, even if otherwise justified by the plaintiffs' evidence of validity and infringement, should not be granted because the product was one which, under the Food and Drugs Act, a compulsory licence might be secured. He was far from satisfied that the plaintiffs' complaint of financial damage could be adversely criticised, particularly as the plaintiffs, at the date of the writ, had been selling the drug for ten years and the defendants for ten days. There was also no evidence that the proper demands of the public were not being met from sources authorised by the patentees. The only remaining question was that of infringement. It concerned 6.8 per cent. of a substance left during the process, which was an infringing substance. On that basis the defendants should not distribute material made by the process as set out in the defendants' evidence.

POISONS SUPPLIED TO A DRUG STORE

Fined wholesaler to appeal "on matter of principle"

SALES of Preludin and Dexedrine tablets by W. Sutton & Co. (Druggists Sundries, London), Ltd., Horseshoe Lane, Enfield, to a drug store owner resulted in the company being summoned by the Pharmaceutical Society. The case was heard by the Enfield magistrates on September 30. The company pleaded "Not guilty" to three summonses of illegally selling the poisons.

Mr. Rodney Bax, prosecuting for the Society, said that, in November and December 1962, and in June 1963, Messrs. Sutton sold quantities of Preludin or Dexedrine to a person trading as Robert Clarke in Finsbury Park. Mr. Clarke's shop was classed technically as a drug store. In March, two inspectors of the Pharmaceutical Society, with a police sergeant, went to Clarke's premises and took possession of a quantity of invoices from Messrs. Sutton. From them it was evident that the company had been regularly supplying the shop with the tablets.

On the invoice for the November delivery a quantity of Preludin tablets was recorded, but an order for Dexedrine—listed three items down—was refused. In the margin was written "C.O.," which meant "for chemists only." But on other invoices deliveries of Dexedrine were recorded. An inspector of the Society told the court he later saw the managing director (Mr. S. H. Wilson) and another director. He drew their attention to the irregularities in the sales of the tablets and was told that there must have been an error in procedure in the warehouse. He was also informed that in future the company would include the

identity of customers at the foot of order forms.

Defence counsel (Mr. Michael Sherrard) submitted that there was no case to answer. There was a gap in the legislation, and if a company sold poisons to a retailer on a wholesale basis for resale, then the company could not be summoned.

Mr. Bax replied that the object of the Act was to stop poison getting into the wrong hands, and the real meaning of the section quoted by the defence was "lawful resale." Otherwise, he visualised a chain of people buying poison, selling to each other and putting forward the defence that it was "wholesale dealing." Defence counsel said that the gap should be closed by Parliament and not compensated by the courts. By adding the word "unlawful," the prosecution had interpreted the legislation as ruling that a wholesaler could be prosecuted for selling the drugs to a retailer for unlawful resale.

The bench agreed unanimously that there was a case to answer and defence counsel repeated his argument. He also told the magistrates that the company, which claimed to be the oldest in the business, had not been dishonest. The facts showed that the sales to Mrs. Clarke had been the result of nothing more than carelessness.

The magistrates found the company guilty and imposed fines totalling £60, with £10 10s. costs. Counsel for the company said there would be an appeal to the High Court. He asked the magistrates to state a case. A matter of principle was involved which interests the whole trade.

COMPANY NEWS

Previous year's figures in parentheses

BOOTS PURE DRUG CO., LTD.—An interim dividend of 4 per cent. is declared (same).

GUEST INDUSTRIALS, LTD.—Dr. J. T. McCombie has joined the company as technical director.

JEYES' SANITARY COMPOUNDS CO., LTD.—Group net sales for the thirty-six weeks ended September 6 amounted to £2.8 millions and pre-tax group profits to £248,000 after absorbing £21,000 of advertising expenditure carried forward from 1962.

EUCRYL, LTD.—An unchanged interim dividend of 5 per cent. on capital

increased by a one-for-five scrip issue is declared. The previous year's total was 15 per cent., equivalent to 12½ per cent. after adjusting for the scrip issue.

LAPORTE INDUSTRIES, LTD.—An interim dividend of 3 per cent. has been declared. It has also been decided to adopt the practice of issuing a financial statement in respect of the period of six months to September 30 in each year. First of the statements is being issued on November 29.

ASSOCIATED CHEMICAL COMPANIES, LTD.—An interim dividend of 6½ per cent. (same) is declared. Group profits, before tax, for the half-year to June 30 were £405,790 (against £399,818 in the same period of 1962). Volume of sales during the first few months of 1963 was lower than in the comparable period of 1962 but improved later and currently is running at a more satisfactory level. Although price reductions have taken place since the end of 1962 profitability was maintained. The information at present available relative to the second half-year indicates a reasonable expectation that profits for the whole of 1963 will not be lower than for 1962.

FARBWERKE HOECHST, A.G.—Turnover is expected to be 8-9 per cent. higher (at about DM3,700 millions) in 1963, said Professor Karl Winnacker (chairman) on October 4. A satisfactory dividend (probably unchanged) could again be expected. The company's foreign subsidiaries had increased their turnover by about 30 per cent. in the first half of 1963 over that of the corresponding period of 1962. The labour shortage in West Germany was becoming so serious that the company was considering transferring part of its production to the "fringe of Europe." "Conditions may be good in Turkey, which has just become associated with the European Economic Community. We already have close connections with that country and may one day transfer one of our production units to it. I am also thinking of southern Italy and Spain, from where we draw many workers."

BUSINESS CHANGES

HEPPELS (1932), LTD., have closed down their branch pharmacy at 35 Haymarket, London, S.W.1.

MR. M. J. MCATEER, M.P.S.N.I., has opened a pharmacy at Bridge Street, Strabane, co. Tyrone, Northern Ireland.

LORD'S HEALTH AND BEAUTY, LTD., is the new trading title of Landed Chemical Co., Ltd., 35 Bank Street, Rawtenstall, Rossendale, Lanes.

RICHARD DANIEL & SON, Ltd., have appointed Mr. N. L. Euston to succeed Mr. F. Calladine as manager of their Ashton-under-Lyne branch.

Appointments

BENGUE & CO., LTD., Mount Pleasant, Wembley, have appointed Mr. I. Stewart area manager for their Southern region. Mr. Gordon Harrison has been appointed medical representative for the Manchester-Liverpool area and Mr. K. F. Butler for Newcastle-on-Tyne.

MR. D. E. PICKBOURNE, B.Sc., previously safety officer with Boots Pure Drug Co., Ltd., has been appointed secretary and executive officer of the British Chemical Industry Safety Council. The Safety Council was set up as a joint body by the Association of British Chemical Manufacturers and the Association of Chemical and Allied Employers in 1956, to co-ordinate the safety activities of the two associations. Mr. Pickbourne is operating from Imperial House, 15 Kingsway, London, W.C.2.

MIDLAND TAR DISTILLERS, LTD., Oldbury, Birmingham, state that, because of organisational changes which came into effect on October 1, Mr. D. F. Tierney becomes chemical sales controller responsible for marketing policy and for sales. Under his control will be three sections with the following managers: Mr. R. H. Benney (chemical sales); Mr. R. C. Cunliffe (sales development); and Mr. K. A. Adey (product development).

MARRIAGES

O'KANE—CASEY.—At the Little Flower Oratory, Belfast, Northern Ireland, on October 1, Bernard O'Kane, 37 Strand Road, Portstewart, co. Londonderry, to Sarah Mary Casey, M.P.S.N.I., 518 Antrim Road, Belfast.

DEATHS

BELL.—On September 25, Mr. William Crockart Bell, M.P.S., St. Medams, Brown Street, Blairgowrie, Perth. Mr. Bell qualified in 1914.

CLARKE.—On September 30, Mr. Philip J. Clarke, a director of Fletcher, Fletcher & Co., Ltd., London, N.7.

CURTIS.—At University College Hospital, London, on October 6, Mr. Stanley Reuben Curtis, B.A., F.C.A., 69 Hamilton Terrace, London, N.W.8, clerk to the council of the School of Pharmacy, University of London.

Doctor Frank Hartley (dean of the School) writes: "Mr. Curtis had been clerk to the council and the secretary of the School of Pharmacy, University of London, since 1948. He had identified himself with the School and its interests in many ways and in many quarters, and will be much missed by his many friends."

LOVATT.—October 1, Mr. Edgar Lovatt, M.P.S., 51 Avenue Road, Trowbridge, Wilts. Mr. Lovatt, who qualified in 1908, was formerly in business at Frome, Somerset.

McNAUGHT.—Suddenly, at a Glasgow hospital on October 1, Mr. John Duncan McNaught, M.P.S., 132 Dorchester Avenue, Glasgow, W.2. Mr. McNaught qualified in 1911.

MILLER.—Recently, Mr. Peter Miller, M.P.S., 10 Richmond Hill, Bristol, 8. Mr. Miller qualified in 1927.

MASON.—In hospital recently, Mr. Clifford Donald Mason. Mr. Mason had only lately been promoted chairman of Mason & Co., Ltd., King Street, South Shields, having previously been managing director for many years. His son, Mr. John Mason, is managing director of the company, which has branches in Newcastle, Durham, Hexham, Morpeth and South and North Shields.

PARRY.—On September 11, Mr. Evan David Parry, M.P.S., High Street, Stanthorpe, Queensland, Australia. Mr. Parry qualified in 1925.

RUSSELL.—On September 27, Mr. Arnold Hugh Russell, Greenways, Borrowcop Lane, Lichfield, Staffs. Mr. Russell qualified as a chemist and druggist in 1904 and retired in 1941.

SEIVWRIGHT.—Suddenly, on October 1, Mr. William Seivwright M.P.S., 73 Waverley Street, Glasgow, S.1. Mr. Seivwright qualified in 1907.

SIMPKIN.—On October 6, Mr. A. Leslie Simpkin, M.C., Blenheim, Eccleshall Road South, Sheffield, 11. Mr. Simpkin founded A. L. Simpkin & Co., Ltd., Hunter Road, Sheffield, 6, in 1931 and until his retirement in 1959 he was managing director of the company, being succeeded by his son, Mr. A. Neville Simpkin. Amongst many interests outside the pharmaceutical field, he served the Baptist movement in many local and national positions, particularly as chairman of the Finance Committee of the Baptist Missionary Society. He leaves a widow, a daughter and three sons, all of whom are connected with the business.

WILLIAMSON.—On September 21, Mr. George Richard Williamson, M.P.S., Ullenwood, Bereweeke Close, Winchester, Hants. Mr. Williamson qualified in 1907.

PERSONALITIES

ON the occasion of the 107th anniversary of its foundation, Sir Hugh Linstead, M.P. (a secretary of the Pharmaceutical Society) has been named an honorary member of the Buenos Aires, Argentine, College of Pharmacy and Biochemistry.

MR. G. A. BROOKS, 94 Thorpe Park Road, Peterborough (superintendent pharmacist, Peterborough Co-operative Chemists, Ltd.), is back home after spending a week in Berlin, Germany, where he attended the German Optical Congress.

MR. S. K. HARRIS, managing director, R. D. Silver, Ltd., Kettering, Northants, is retiring after being associated with the company for thirty-five years. Mr. Harris joined the company as an apprentice in 1928. A Kettering-born man, he is well known as a member of the local Rotary Club and as an amateur photographer.

MR. L. M. BROWN has been appointed group chief pharmacist for Angus General Hospitals following the reorganisation of the group pharmacy department, under which the central pharmacy department will be at Stracathro Hospital. A native of Barrow, Mr. Brown was appointed pharmacist at Stracathro Hospital in 1950. He is a member of the Brechin town council.

MR. H. EDWARDS, who for the last seventeen years has been a director and manager of the manufacturing section of Southall Bros. & Barclay, Ltd., Birmingham, recently retired. Altogether he had been associated with the Sanger group of companies for thirty-three years, first with John Thompson (Wholesale Druggists 1921), Ltd., Liverpool.

TRADE NOTES

Honey from Stock.—D. J. Scott & Co., Ltd., importers of honey, Winchester House, Old Broad Street, London, E.C.2, hold stocks for immediate supply.

Training Children to Use a Cup.—Kaymet Co., Kaymet Works, Sylvan Grove, London, S.E.15, state that their Ucky-Ducky drinking cup is now supplied with two training lids. It is available in bright colours and attractively boxed.

Napkin Liners.—V. S. Besso & Co., Ltd., 61 George Street, Manchester, are manufacturers of the Sally Pigtales Drianaps "one-way" napkin liners, which have the effect of keeping baby dry and avoiding discomfort, soreness and rash. The display carton holds twelve packets of two.

Free Insurance Policy.—Customers of the G.E.C. Lullaby electric blanket, which the manufacturers, General Electric Co., Ltd., 1 Stanhope Gate, London, W.1, claim is "the world's most attractively packed and most reasonably priced electric overblanket," are given a £10,000 insurance policy free.

The "Ultimate" Tetracycline.—Carlo Erba (distributors in Great Britain: Fraser Chemicals, Ltd., 88 Lewisham High Street, London, S.E.13) are marketing under the name Tetralysal a tetracycline hydrochloride which they claim is twenty-five times more soluble than standard tetracycline hydrochloride and stable throughout the complete range of physiological pH.

Appointed Distributors.—The British Medical Association announces that it has appointed Continental Cosmetics, Ltd., to be the sole distributors to pharmacies in the United Kingdom of their Family Doctor booklets. Orders may be placed with the company's sales representatives or sent direct to Family Doctor, Booklet Division, 88 Fonthill Road, London, N.4.

Stocks with Wholesalers.—Rhuaka Remedies (1923), Ltd., 6 Church Street, Ashton-under-Lyne, state that stocks of Rhuaka digestive syrup and Frangula Rhuaka tablets are held by all well-known chemists' wholesalers to meet the increased demand created by increased advertising in national daily and weekly newspapers. Any difficulty in obtaining supplies should be notified direct to the manufacturers.

Visiting Britain from Pakistan.—Mr. M. A. Sheikh (chairman, Pakistan Pharmaceutical Importers' Association) was scheduled to arrive in London on October 8 for a stay of three weeks. His address in London is care of Stafford Allen & Sons, Ltd., Wharf Road, London, N.1. Persons interested in obtaining information regarding the pharmaceutical trade and industry in Pakistan are welcome to contact him at that address.

Pharmaceuticals from Poland.—Sole representatives in Great Britain for a number of Polish pharmaceutical products for medical and veterinary use exported solely by Ciech Import and Export of Chemicals, Ltd., P.O. Box 271, 12 Jasna Street, Warsaw, are Anglo-Dal, Ltd., Chesterfield House,

Bloomsbury Way, London, W.C.1. The products include those issued under the Polva, Biomed, Herbapol and Biovet brand names.

An "Own-name" Service.—Arthur H. Cox & Co., Ltd., Brighton, Sussex, offer chemists a service in providing "own-name" packs of products for over-the-counter sale. The service takes care of attractive packs, with brand mark of own choice or designed by the company's artists; seven pack styles; clear printing on cartons and labels; high display value in counter show material; and "excellent" formulas.

Change of Capsule Size.—Beecham Research Laboratories, Ltd., Great West Road, Brentford, Middlesex, announce that, during the next few weeks, the size of their Penbritin and Orbenin

capsules is being reduced. Some canister sizes are in consequence also being reduced, bringing them into line with the company's standard range. The new-size capsules are easier to swallow, and the containers allow them to be stored more conveniently. Over a period of about two months, printed matter inserted inside the canister will draw attention to the change of size. Prices are unaltered.

Compact "at Refill Price."—Latest pressed-cream powder product of L. Lechner (London), Ltd., 30 Acre Lane, S.W.2, is de-luxe compact "at a refill price." The product is available in natural, beige veil, tawny rose and sun caress shades.

INFORMATION WANTED

The Editor would appreciate information about:

Quadrelene clinical detergent
Allobron

EUROPE'S LARGEST PHOTO-PAPER WORKS

Continuous production at £3½-millions plant

IN production on a round-the-clock shift system from October 7, a new photographic paper manufacturing plant of Kodak, Ltd., at Wealdstone, Harrow, Middlesex, is claimed the largest in Europe in terms of volume of production. The building comprises two paper-coating plants in which the rolls of photographic paper are coated with a light-sensitive emulsion and subsequently handled for issue to users. Each coating plant is associated with an emulsion department in which are made and tested light-sensitive solutions; and a paper finishing department in which the sensitised paper is tested, cut into market sizes and packed. Paper is produced in the plant for the home market and for export all over the globe. Varieties are produced for document copying as well as for the amateur, industrial and professional photographic markets.

The work of construction began in August 1960, and the whole project has cost £3½ millions to complete. The four story building is approximately 640 ft. long, 60 ft. wide and 60 ft. high.

A feature of the plant is its "dispensary" system, whereby weighed quantities of the various filtered liquid ingredients of the coatings are delivered, after "indent" by electronic signal, by stainless-steel pipeline, direct

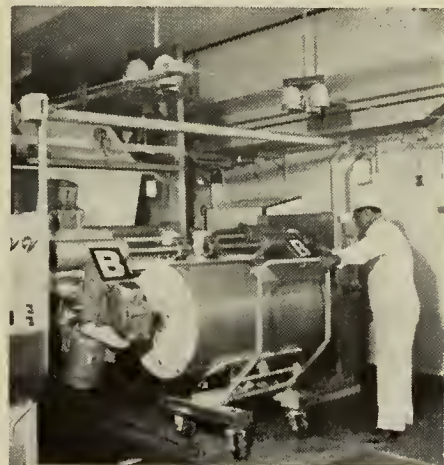
into stainless-steel mixing kettles on a lower floor. In the mixing kettles the temperatures are controlled, and the emulsion is again filtered before passing to the coating department. The stress laid on filtration applies equally to the air, which must be free of all impurities not only in the coating department but just as importantly in the long and complicated drying sequence, in which the paper is supported on a cushion of air (5 tons of air per track per minute) on its long journey over intervalled "drying points."

"Robot" of the Dark

Another costly item that "high-lights"—a most inappropriate word—the difficulty of handling 15-cwt. rolls of light-sensitive paper is the lift-truck that, in darkness, delivers or fetches the rolls from 4-tier racks as a "robot" operation.

Instrumentation is everywhere, enabling every stage of the progress of the materials through the works to be logged and controlled in the comparative brightness of yellow-lamped instrument rooms.

Enormous as the present capacity of the plant is, the ground space for additional tracks parallel to the present two is earmarked for extensions at some future date.



Left: Part of a paper-coating machine. Right: Exterior view of the new plant at Wealdstone.

NEW PRODUCTS AND PACKS

For Estimating Haemoglobin.—Evans Medical, Ltd., Speke, Liverpool, 24, have made available a haemoglobin estimation kit that enables the proposed Lead Processes (Medical Examination) Regulations 1963, amending the Factories Act, to be met. The kit is also suggested for screening for possible anemias in general practice and in ante-natal clinics.

Available as Syrup.—Beecham Research Laboratories, Ltd., Great West Road, Brentford, Middlesex, announce that Penbritin broad-spectrum penicillin is now available as a powder in the quantity for preparing 60 mls of a fruit-flavoured syrup product. When dispensed, each 5-mil teaspoonful contains 125 mgm. of ampicillin. To ensure precise dosage, a plastic teaspoon is supplied with each bottle.

Progestational Agent.—Upjohn, Ltd., Fleming Way, Crawley, Sussex, announce the introduction of Provera and Depo-Provera, incorporating a new progestational agent for use in the management of menstrual disorders and threatened abortion. Provera tablets, 5-mgm., are issued in containers of twenty and 100 and Depo-Provera (50-mgm. per mil) in containers of 1 and 5 mls. Both products are available on prescription only and subject to Schedule IVb of the Poisons Rules.

Desensitising Vaccines.—The Bencard Allergy Unit of Beecham Research Laboratories, Ltd., Brentford, Middlesex, are marketing two desensitising vaccines, Haygen and Bronchagen, for the treatment of allergy. The products are described as the logical outcome of research within the Unit. They are offered for the effective treatment of allergic asthma and perennial rhinitis and hay fever. No skin tests are necessary. Haygen (for hay fever) is supplied in four 10-mil vials in graded strengths suitable for one season's treatment, and Bronchagen (for asthma and perennial rhinitis) in three 10-mil vials in graded strengths for a complete course of treatment.

An Antihistaminic and Nasal Drops.—Zyma (U.K.), Ltd., Catteshall Lane, Godalming, Surrey, are marketing two new pharmaceutical specialities. Fenostil-retard tablets and Fenostil syrup are described as an antipruriginous anti-allergic antihistaminic. Each tablet contains 2.5 mgm. of dimethpyrindene maleate and the syrup contains 1 mgm. of the compound in each 10 mls. The tablets are issued in packs of twenty and 100, and the syrup in bottle of 100 mls. Vibrocil nasal drops and nebuliser contain 25 per cent. of phenylephrine, 35 per cent. of neomycin sulphate and 2.5 per cent. of dimethpyrindene maleate. The use of the drops and nebuliser are indicated in common cold, acute and chronic rhinitis and similar conditions. The pack is a drop bottle of 15 mls. The nebuliser is of 15 mls capacity.

Vitamins with Iron.—Astra-Hewlett, Ltd., Watford, Herts, announce the introduction of a new speciality Refevit laminated multivitamin and iron tablets for sucking, chewing or swallowing. For over-the-counter sales the tab-

lets are presented in a three-colour outer display carton, showing a cut-out



of the layered tablet. Each carton holds twelve bottles of thirty. A larger (240-tablet) size and a dispensing pack of 1,000 tablets are also available.

Measured-dose Bronchodilator.—Bayer Products Co. (a division of Sterling-Winthrop Group, Ltd.), Winthrop House, Surbiton-upon-Thames, Surrey, have launched a new bronchodilator in 10-mil translucent container fitted with measured-dose oral nebuliser. The nebuliser delivers, in a fine aerosol mist of controlled uniform particle size, 200 doses of a product containing 0.6 per cent. of Isoetharine (N-isopropylethylnoradrenaline methanesulphonate), 0.125 per cent. of phenylephrine hydrochloride and 0.05 per cent. of thelyldiamine hydrochloride, together with saccharin and menthol. The product is intended for the rapid relief of bronchial asthma and other conditions in which bronchospasm is a complicating factor. Too frequent use is not recommended, as it may cause headache and other unpleasant reactions, and the bronchodilator should not be used with adrenaline or other related compounds. In other circumstances it is understood quickly to re-

lieve bronchospasm, shrink the oedematous bronchial mucosa, and aid the expulsion of tenacious mucus.

More Canned Fruits for Diabetics.—Alfonal, Ltd., John Adam Street, London, W.C.2, have introduced a further range of sugarless canned fruits, enabling them to offer "a fully comprehensive" range of canned fruits for diabetics. The new varieties comprise five types of water-packed unsweetened and five types of sorbitol-sweetened canned fruits, all in 8-oz. tins.

Autumn/winter Make-ups.—Guerlain, Ltd., 14 Grafton Street, London, W.1, announce a "make-up collection" for autumn and winter 1963-64. Three new make-ups have been evolved, each laying special emphasis on the eyes. Known as Sapphire, Emerald and Topaz respectively, each includes eye shadow stick, eye-liner and roll-on brush mascara. The Sapphire shades are grey, marine blue and blue respectively, accompanied by matfilm, rouge and powder in Tourangelle, Iris and Marocaine shades respectively, plus a new lipstick *Rose Tremière*, "a pale red tinged with blue" to harmonise with the sapphire. The Emerald and Topaz make-ups contain similar selected colour groupings.

Clear Hair-spray.—Formulated, it is stated, "especially for use by women with colour-treated hair," Focus Crystal Clear hair spray has been launched by the Toni Co. (a division of Gillette Industries, Ltd.), 100 Brompton Road, London, S.W.3. Essential requirement for a hair spray for those types of hair, state the makers, is that the film imparted should be colourless, so as not to dim or otherwise affect the hair colour itself. It should also be easily removed by normal shampooing, thus avoiding the necessity for harsh treatments that might themselves remove the artificial colour from the hair. Focus Crystal Clear hair spray is claimed to be made in such a way that the film applied to the hair is completely clear and removable by normal shampooing. The set-holding qualities are claimed good and achieved without imparting an excessive stiffness. The perfume is of Cologne type, and the pack an 8-oz.



New Focus products by Toni Co.

aerosol. Another new product in the Focus range is Focus Extra ("extra colour, extra richness, extra depth, which brings the hidden colours to life

in the hair”), produced to meet a demand for products that safely impart deeper shades than Focus Highlights. The simple shampoo technique has been maintained. Each kit contains a sachet of precolour shampoo and a bottle of colorant, with full directions. At the start five shades are offered, each imparting a more intense tone of one of the established shades of Focus Highlight.

High-powered Batteries.—For battery-operated electric shavers, Ever Ready Co. (Great Britain), Ltd., Hercules Place, London, N.7, have produced a new battery, the HP2, described as “revolutionary.” The battery is of similar dimensions to the international U2 but differs from it in having been designed and developed to give more power for longer periods. The makers claim that its use eliminates variations in the performance of battery operated shavers. Other uses are in photoflash equipment, for battery-operated tooth-brushes, etc. The batteries are issued in box of twelve in container of one gross.

“Top-quality” Hair Dryer.—As the first step in a move towards product diversification, Schick Incorporated (U.K.), Ltd., New Pound, Wisborough Green, Billingshurst, Sussex, have produced a new hair dryer, the Petite Salon. Its price is, they say, not low by comparison with others, but the company’s managing director believes that “in a field where there are already many contenders, we feel there is room for a top-quality hair dryer.” The dryer is built into the case. In use “the lid comes up, a flexible hose fits into a socket and attaches to a plastic bonnet which clips over the head. Within the limits of the flex, the user may sit or stand where she pleases.” There are manicure attachments, and the motor is described as “so quiet that one can speak on the telephone or watch television or listen to the radio while using the dryer.”

An Advance in Single-edged Blades. Ever-Ready Razor Products, Ltd., 26 Bedford Row, London, W.C.1, announce the launch of a new Ever-Ready CorruX “premium-edge” blade, representing, they claim, the biggest advance in single-edge shaving for years. The blades are “micro-misted” so that microscopic beads flow in front of the edge to “float it through the beard”; for added protection the blade is lacquered. The blades are packed on a tent card containing twelve tucks of

five blades each and designed “for maximum merchandising effectiveness.” The blades are being introduced to users by a special razor offer (an Ever-Ready plastic-handled razor in “blister” with three Ever-Ready premium-edge blades). A free sample blade is also being inserted in each tuck of five standard CorruX blades, so that existing CorruX users may sample the new premium-edge blade.

An Aid for the Physically Handicapped.—Vincent Associated Services, Ltd., 30 New Bridge Street, London, E.C.4, draw attention to their new patented “ultra light” Helping Hand device. The new model has an appeal to all handicapped and elderly people and is ideal for those suffering from arthritis, polio or similar disabilities. For the bedridden and those in wheel



chairs it gives a feeling of independence and it enables the elderly to recover objects from the ground without stooping. Objects many times the weight of the device (6 oz.) can be recovered easily. Its length is 26½ in. The jaws open 3 in. wide and grip firmly but gently both hard and soft objects (books, spectacles, wool, slippers, coins, newspapers). For people laid up in bed it will draw up blankets, open or close inaccessible curtains or switch on/off and tune the television or radio set. For general domestic use the device will hold brush or duster for cleaning picture rails, draw curtains, and retrieve articles dropped behind furniture. In the garden it may be used for picking fruit from trees. Sole distributors are Zimmer Orthopaedic, Ltd., 134 Brompton Road, London, S.W.3.

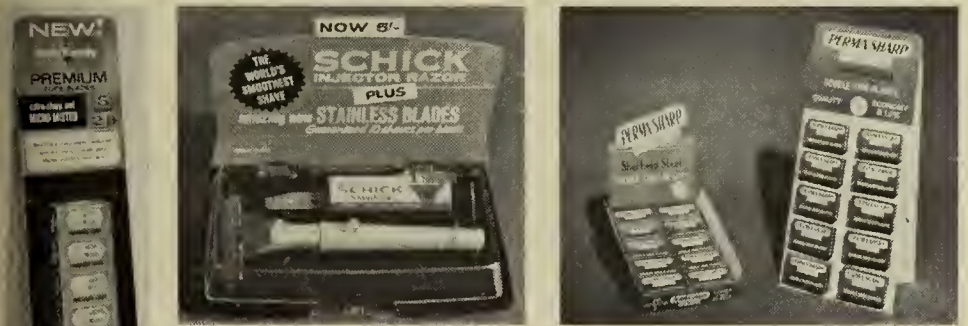
Blades Under Constant Shave Tests. — A new shaving product to be released on the British market is Perma-Sharp, a stainless steel double-edged

razor blade claimed to give “the smoothest, freshest shaves together with economy and life.” Manufactured in Lanarkshire, Scotland, by Perma-Sharp, Ltd., Flakefield, East Kilbride, the blades require no wiping. To ensure that they are in perfect condition before they reach the consumer, the manufacturers have set up a test panel, “numbered in hundreds,” of men who regularly receive a blade from production each week and whose reports are recorded and analysed before each batch number is released to the trade. In addition, all male employees at the factory arrive at work each morning without shaving. They have their own shaving room and constant shave tests are made throughout the day from blades straight off the production line.

Sterilising Vessel for Feeding-bottles. — While boiling an infant’s feeding bottle is an effective means of sterilising it, the method has disadvantages. The process is troublesome and usually costly in terms of cracked bottles. In hard-water areas it produces a deposit to which milk can adhere, making subsequent sterilising much more difficult.



A vessel in which bottles can be sterilised by simple upright immersion in Nobactin sterilant has been specially designed by Gascoigne-Crowther, Ltd., Reading, Berks. The steriliser is easy to use, enabling bottles to be filled easily, and having a cap that gives protection against fly-borne contamination. The vessel, an upright beaker that takes two bottles, completely immerses them in the solution “and ensures effective germ control without the need to boil.” Preparation of the solution is made easy because the lid incorporates a depression in which the Nobactin powder may be levelled off to give the precise quantity when water is added to a marked level. At present the company’s promotion is directed to persuading mothers to write in to the company for one of the beakers complete with the Nobactin and the bottle brush for 10s. It is understood that Messrs. Gascoigne-Crowther intend later to distribute the beaker through pharmacies.



Left: Small-counter-area display-piece for new CorruX “premium-edge” blade of Ever-Ready Razor Products, Ltd., 26 Bedford Row, London, W.C.1. Centre: New presentation of Schick injector razor with Schick stainless blades. Right: Display-pieces for new Perma-sharp double-edged stainless blades of Perma-Sharp, Ltd., Flakefield, East Kilbride, Lanarks.

FOCUS ON AEROSOLS

International meeting of manufacturers in Brighton

ABOUT 600 delegates from all over the world attended the fourth International Aerosol Congress in Brighton, October 8-12. They were addressed by speakers from Germany, France, the United States and Great Britain, who covered various aspects of this rapidly growing section of the packaging industry. Held simultaneously was an exhibition—the first of its kind in England—which attracted seventy exhibitors from England, France, Germany, Spain, Italy, Switzerland. They displayed everything needed for the aerosol industry including containers, components, propellents, perfumes, concentrates, hair lacquers, deodorants, insecticides, chemical products, packaging machinery, machines for the manufacture of aerosols, aerosol filling machines, crimping machines, propellant pumps, laboratory equipment, etc.



JUDGING AEROSOL PACKS: The aerosol package competition jury choosing winning packs left to right: Mr. F. H. K. Henrion (chairman, England); Professor Hans Bohn (Germany), and M. J. P. Lauth (France).



PHARMACEUTICAL ENTRIES. First prize: was awarded to Odol by Lingner Werke G.m.b.H. (extreme left). Honorary mention: (left to right), Nasomixin by Pierrel, S.p.A., Italy; Terramycin, Laboratoire Pfizer Clin., France. Hibitane antiseptic aerosol, I.C.I., Ltd., Pharmaceuticals Division, England. Aylen foot powder, Farikos S.a.r.l., Switzerland, and Incidin-M-Rapid, Desowag - Chemie, G.m.b.H., Germany.

An aerosol package competition was also held in which 400 packs were entered. Visitors were able to see the winning and other entries which had been judged by M. J. P. Lauth (France); Mr. F. H. K. Henrion (chairman, England) and Prof. Hans Bohn (Germany).

Entries were placed in one of ten groups, for example: insecticides, air fresheners, hair preparations and so on, but not all groups received a "first" award, the judges considered sometimes that no entry quite measured up to requirements.

Winning Entries

In deciding the best package in the competition as a whole, the judges awarded first prize to Shulton, Inc., for their new pack of "Colognes." A French and Italian entry each received an honorary mention, while all three were awarded first prize in their respective groups. First in the pharmaceutical group went to Germany while a British entry by Durazone Choice International, Ltd., was successful in hair preparations. They also received first prize in group K2 (family ranges) for their Choice range which



AEROSOL STAR PRIZE: For the best package in the competition as a whole first prize was awarded to Shulton Inc., U.S.A., for their Shulton Cologne—new pack (left). An honorary mention was awarded for the Aeropak air freshener by Aeropak S.p.A., Italy, and for G Men, by Mariotti, France (right). All three entries won first prize in the respective class in which they were entered. Centre: Like Helen hair spray by Durazone-Choice International, Ltd., England, winner of group D (hair preparations).

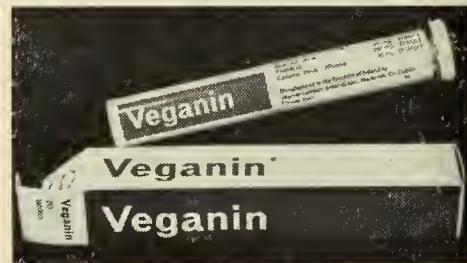
the judges acclaimed as "outstanding, each individual package contributing to a remarkably consistent family appearance with the necessary variety achieved by the use of colour."



PERSONAL PRODUCTS: Atomizer Moustache after-shave lotion by Parfums Mareels Rochas, France, winner of group F.

MANUFACTURERS' ACTIVITIES

Irish Award for a Pack.—Warner-Lambert (Ireland), Ltd., an associate of William R. Warner & Co., Ltd., Eastleigh, Hants, have gained a first-class award for their Veganin 20's pack in a national competition organised by



the Irish Packaging Institute. The company had submitted an entry for the first time. The Irish pack is identical in design with the Veganin pack on sale in England. The judges' official comments were not announced when the awards were made—they are being published later — but G. T. Kelly, founder-member of the Institute of Creative Advertising and Design) said about the Veganin consumer pack: "I believe this to be quite flawless. It is simple, distinctive, beautiful and of immense impact."

Retirement Luncheon.—Customers, clients and associates of Thermos, Ltd., manufacturers of vacuum flasks, Brentwood, Essex, gathered in great numbers to do honour to Mr. Leslie T. Sawney, O.B.E., M.C., at a luncheon in London on October 1 to mark his retirement as chairman and managing director of the company since 1926. Mr. P. W. Huntsman, who presided, told how "young Sawney" had arrived at a particularly difficult time in the company's history, when it was struggling to get on its feet after losing many of its most skilled workers in the 1914-18 war. Under Sawney the company had first recovered and then expanded. He had shown liberal and far-sighted leadership, so that, when the command arose in 1945, "Export or die," the company had the mechanism ready to hand. In every succeeding year exports had accounted for more than 50 per cent. of its production and sales. Mr. Sawney, acknowledging the toast proposed in his honour, and thanking the staff for contributing to present to him an 18-ft. motor launch as parting gift, forecast a great future for the company under his "capable and energetic" successor Mr. Huntsman.

SHAVERS AND DISPOSABLE SYRINGES

Needle industries group's expanding interests

AT first sight it may be difficult to detect a common basis for the manufacture of needles, electric shavers and disposable sterile syringes. All three, among others, are being produced by companies within the Needles Industries group, Redditch, Worcs. They do, in fact, represent a logical development of the group's light precision-engineering concerns.

One member company within the group (Henry Milward & Sons, Ltd.), was first encouraged to consider entering the competitive dry shaver market about three years ago, on learning that two-thirds of the British male population still used razors and soap. Two and a half years was spent on technical development and the end product—the remarkable Milward Courier cordless electric shaver—appeared on the market at the beginning of 1963. The Courier, which works on 6-volt. batteries, incorporates an efficient electric motor and an exclusive scything action (using circular fine cone cutters), giving it, say the manufacturers, the performance and efficiency of a mains shaver.

The production department is currently employing forty people; its production capacity is 3,000 a week. Additional factory space is being prepared so as to enable the output to be increased several times. The staff, mostly women, are selected for skill and responsibility. Every component is tested as it is assembled, so it is essential that the workers should be self-critical. The makers claim that each shaver is, in a sense, "hand-made."

The screen for the foil head is made from 0.002 in. high-tensile steel, which is pierced on a machine and bevelled. The screen is then "blanked" out and polished. Its head is next preformed and assembled into its mount. During assembly it is stressed to a pressure of 12 lb., checked for yielding or distortion and finally passed. The operator has to locate the screens in the head to an accuracy of 2/1,000 in.

The hollow-ground saucer-shaped cutters are lapped by hand to give a mirror finish. Their life is claimed

"almost indefinite," and a pair weigh less than a postage stamp. The cutters are assembled on the cutter spar with the trimmer blade, and the whole unit lapped again for balance in the running condition.

The motor (of American design) is made within the factory and tested at each stage. Every motor is run-in on the bench for about twenty minutes, and checked for vibration, noise, electrical efficiency and current consumption. The components are matched by hand to give an exact fit and maximum efficiency and the components are then assembled in stages along a production line. The completed shaver receives a full final inspection for current con-



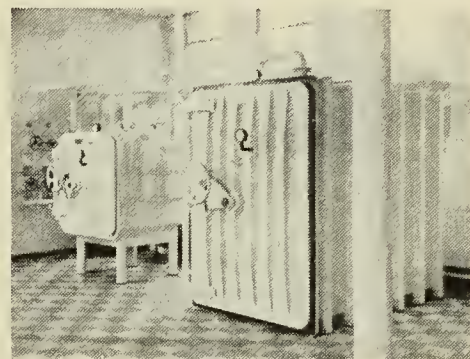
A final check on the shaving head: visual examination under a stereoscopic magnifier.

sumption, shaving efficiency, noise and vibration, running speed, etc., when used with battery cells. A final visual examination and handling of the shaver complete the inspection.

As well as working efficiently, the Milward Courier is also outstanding for its elegant design, a fact that was recognised by the award of the Duke of Edinburgh's prize to the shaver's designer (Kenneth Grange) on May 23.

The group also broke new ground in 1959, when, influenced by trends in the United States, the subsidiary company Shrimpton & Fletcher, Ltd., became the first to manufacture disposable sterile hypodermic syringes and needles in Great Britain. Three sizes of syringe are made (2 c.c., 5 c.c., and 10 c.c.); in the future a 20-c.c. syringe may also be made. Three sizes of needle are made (nos. 1, 15 and 18). The plastic syringes and plungers are shipped as blanks to the factory. The barrels are then printed with graduations, and rubber ends fitted to the piston plungers (the rubber mountings being lightly lubricated with silicone oil). The syringe is assembled and automatically heat-sealed into an individual polythene pack. Simultaneously, needles are assembled with plastic couplings; 50 per cent. of syringes sold are fitted with needles. Each syringe and needle pack is tested by hand for air tightness before being placed in a steri-

lising chamber, and treated for fourteen hours with ethylene oxide at controlled conditions of humidity and temperature.



Ethylene oxide sterilising chambers at the Redditch factory of Shrimpton & Fletcher, Ltd.

The gas is then exhausted and the syringes packed in boxes of 1,000 each. Ten samples are taken from each batch and subjected to intensive tests for sterility. In addition, control sachets are included with each batch, and they change colour in the presence of ethylene oxide. The company state that there has never been a case where the sterilising process has not worked and that, in four years' production, there has been no infection traceable to the product. Syringes that have been tested after a lapse of four years have been found to be still completely sterile.

Large stocks of syringes and needles are held in readiness for, when a hospital decides to adopt the system, a service must be available within hours.

OFFICE EQUIPMENT

New mechanical aids at Olympia

OVER £10 millions' worth of business equipment was believed to be on show at the fifty-second National Business Efficiency Exhibition, held at Olympia, October 1-5. Mechanisation has already taken over in most large company offices. Now the equipment manufacturers are going after the smaller offices. Besides the electronic computers, there were the latest in adding machines, dictating equipment, duplicators, typewriters, cash registers, etc.

Among the new calculators shown by BURROUGHS MACHINES, LTD., 356 Oxford Street, London, W.1, were their series C 1000, single and duplex models. ADWEL ADDING MACHINES, LTD., 11 St. Cross Street, London, E.C.1, demonstrated their new Changemaster machine which totals the value of purchased goods, calculates the change and issues a printed ticket with the details. Electrically operated it costs £75. Among the many new copying machines was the Ilfoprint by ILFORD, LTD., Ilford, Essex; the Thermofax 45 (which is hired at £1 per month) by MINNESOTA MINING & MANUFACTURING CO., LTD., Wigmore Street, London, W.1. Carbostat and Copylith by COPYCAT, LTD., Greycoat Place, London, S.W.1, and the Remington 250 photocopier by REMINGTON-RAND, LTD., 65 Holborn Viaduct, London, E.C.1. PHILIPS ELECTRICAL, LTD., Shaftesbury Avenue, London, W.C.2, and PULLMAN BUSINESS MACHINES, LTD., 29 Goswell Road, London, E.C.1, demonstrated their latest dictating and recording machines.



Shaver motors being run-in and tested after assembly.

Correspondence

Letters when received must bear the name and address of the sender, not necessarily for publication. The Editor does not hold himself responsible for the views expressed.

No Policy Change

SIR,—No doubt some pharmacists will be in correspondence with you concerning the article in last Sunday's *Observer*. You will appreciate that much that appears in the public Press could be described as "inspired" writing, and I am able to advise you that the board of this company has not changed its policy of selling only through retail chemists.

P. J. DICKINSON,
THE BRITISH DRUG HOUSES, LTD.,
London, N.1

Restrictions on Enterprise

SIR,—Mr. E. C. Burrow's letter headed "Enterprise" (*C. & D.*, October 5, p. 368) reminds me of a pharmacist—sorry, a *chemist*, who retired about the time I began my apprenticeship. He was in business for some thirty years and never joined the Society (no point in it, my boy!). His fascia-board proclaimed that he was a "Chemist and Druggist—Qualified by examination," implying that the fellow down the road wasn't (and let him pick the bones out of that). He was never inspected, directed, pushed around or snooped upon. It was beneath his dignity to dispense for the N.H.I. (damned panel-paupers) but when he died he left £75,000—a fairish sum in the late '30's. For twenty-eight years or so I have been preaching that the 1933 Act was a mistake. Now at last one or two people are beginning to believe me!

NORMAN BUCKLEY,
London, S.W.11

Wording That Causes Anxiety

SIR,—While welcoming a letter from Messrs. Allen & Hanburys which states that references to samples will be excluded from the company's Press advertisements, and while acknowledging the company's right to criticise the wording of the Council's statement, I was disturbed to read the penultimate paragraph. It is there stated they, the company, "have, to date, never allowed our products to be sold through any other type of retail outlet," the operative words being "to date." If this is an attempt to bring pressure to bear on the Council in any way it is to be deprecated. It could lead to a deterioration of the hitherto excellent relationship that has existed between pharmacists and the company. I would appreciate confirmation that my suspicions are without foundation and that this was, in fact, just a badly worded sentence.

R. DICKINSON,
Newcastle-on-Tyne

That Increased Retention Fee

SIR,—One reason given for the 80 per cent. increase in the personal retention fee of members of the Pharmaceutical Society is that the annual voting paper (for new Council members) is sent with a stamped envelope for reply. That expenditure of three-

pence per member would hardly account for an increase of £4, and need not have been mentioned. The other surprise was that Council members get their locums' fees paid when they attend Council meetings. I know one or two who do not need this. Someone suggested we should ignore the demand and carry on as usual. This is an excellent idea which I would carry out with a few supporters. Any offers, please?

C. H. PATRICK,
Twyford, Berks

SIR,—It is only too true and self-evident that there is a big rift between members and the Pharmaceutical Society over the increased retention fee. It is also only too true that this is a dangerous situation for any organisation or profession to be in. We realise that, with the increased responsibilities of the Society, there must be an increase in expenditure, but we have reached a stage where there is lack of confidence in the Society on this issue, and that any amount of statements made by the Council are viewed with suspicion, as bolstering of its own case—no matter how factual the statements may be. The impression of the members is of a huge juggernaut over which they have no control, and that members are treated as having an endless purse. May I make a plea that the Society should have an independent survey on its finances, to find out why this situation was not foreseen some years ago, whether the present plan is reasonable or suitable, and further to prepare a budget plan for the next five or ten years so that members can see where the Society is going, that there is control on expenditure, and avoid further crisis. With an independent survey the Society has nothing to lose or fear. It can regain and restore the confidence of its members.

MERVYN MADGE,
Plymouth

Vick 44 Free Sampling

SIR,—The Council of the Pharmaceutical Society has missed the boat again with wishy-washy advice. On this occasion I am sure that every responsible professional man in the country would have expected and backed up a clear firm directive. As it is, every tramp, layabout, scrounger and mentally immature is going the rounds seeking a free sample of cough mixture. None of them seem to have a cough, but the exercise is doing them good.

FORMULA X (REVISED).

SIR,—During this last week I have had my shop invaded by all types of people, of all ages, clutching a piece of paper which was supposed to be exchanged for a free sample of a cough linctus containing a Part I poison. I read the usual late wishy-washy type of statement from my protective organisation urging that I

should not partake in the scheme. It was so effective that all my "fortunate" brethren who had received their allocation immediately distributed same to all and sundry. Though I had given my usual winter order to this firm my quota had not yet arrived, though the coupons were distributed in my area. I would have liked to have had a member of my Council, or a member of the N.P.U. Executive and a member of Vick International in my shop to see the effect that this gimmick had produced. The eager something-for-nothing look, the children with five or six coupons, the people accusing me of favouritism, the non-customer "grocer-goer-to," but few taking my sincere word that I had not had one of these sample nuisances on my premises. Why and for what did I suffer? My Society is demanding a higher fee, but does not even have the power to stop this abuse of poisons distribution. The N.P.U. could not care less, whilst Vick can do exactly what they like. No doubt they will prove the scheme to be a success, get the name known, change the formula, and release it to the grocers, etc. What fools, what powerless idiots we are. I therefore propose, if and when these our "coffin nails" come, to distribute them but to collect the coupons and charge them up to Vick, claiming a dispensing fee for each one labelled and given out. I also intend to make a daily charge of a nuisance fee for each day from the time of the coupon distribution on Monday last to the time of delivery, thus showing these Big Brother firms some sign of professionalism. As to my Society—just why do you want more money from me?

VANQUISHED NOT VICKTOR

PRESCRIPTION POSER

Vaselines 2 Mili

Me Tals Aronins

Mutu 100

Pig i T-1-D

THE prescription here reproduced was received by a Lancashire pharmacist, to whom it understandably caused some difficulty.



'TYROZETS'

**winter
bonus
terms**

Generous winter bonus terms are now available for these popular fast-selling throat lozenges.

Make sure of your winter stock while the offer lasts.

If you have not already had details of the extremely advantageous terms, let us know without delay.

... And remember too, that bonus terms are available for **'SUCRETS'**, the distinctively-flavoured lozenges in the vacuum pack.

'Tyrozets' and 'Sucrets' are registered trademarks



MERCK SHARP & DOHME LIMITED, HODDESDON, HERTS

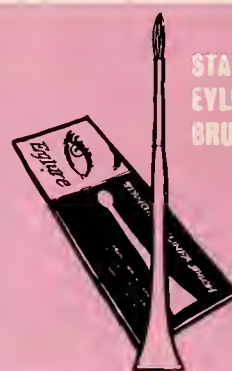


NEWEST WAY

TO MAKE EYES WITH EYLURE

Sheer bewitchery! No woman will be able to resist the glamour-look of Eylure Eyelashes! In their new luxury-packs, long silky Eylure lashes make a pretty item for a feminine dressing table. She'll just love them!

Handmade in real hair or natural fur with long-lasting adhesive *and* Lashfix instant adhesive—Eylure lashes are put on easily and *stay* put.



STANDING
EYELINER
BRUSH

LIQUA-LINER
American
formula in
ten shades



To complement the popular Eylure Eyelure has created a comprehensive range of products designed to flatter every woman. The complete range of products is available in all good chemists and druggists.

Eylure—Filmland's top eye make-up artists David and Eric Aylott for the world.

EYLURE LIMITED, 60 BRIDGE ROAD, LONDON, W.C.2

WOMEN LOVE FLATTERY

ITS WHY THEY CHOOSE EYLURE

Hands worthy to be kissed! Her hands—given that extra slender elegance that every woman is searching for . . . by Eylure fingernails. These superb nails give a look of complete naturalness. Nobody guesses they are not her own—that's why Eylure fingernails are such a success. Extra-easy to fix with the new powerful adhesive . . . and each pack comes complete with remover. When a customer complains of broken, split nails you can safely recommend 'worry-free' Eylure fingernails.



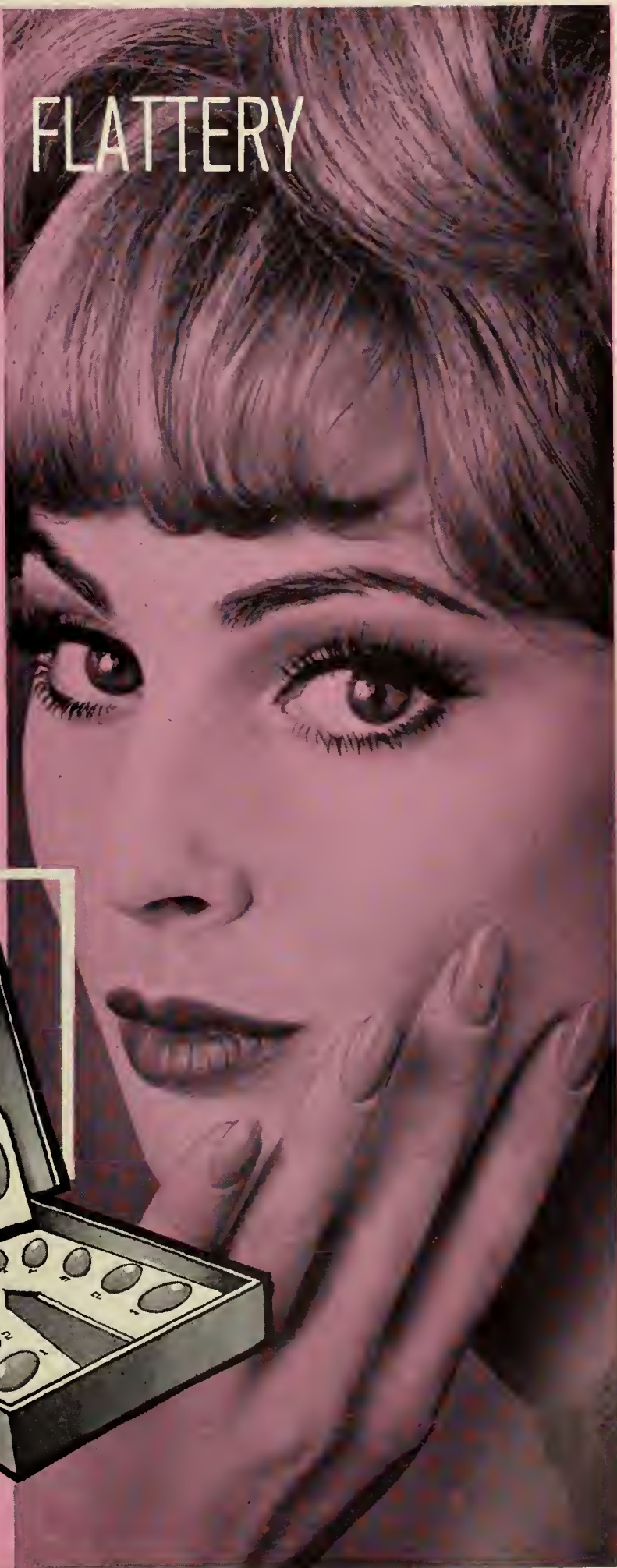
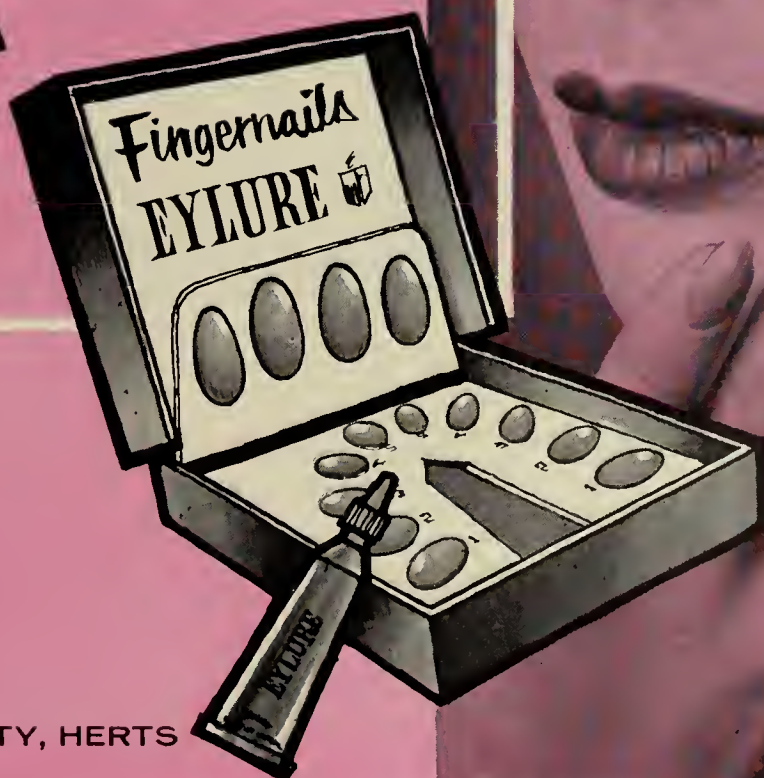
SYSTEMATIC MASCARA
new spiral brush

s and fingernails,
keep range —

o request.

d y
ing women.

WYN GARDEN CITY, HERTS



WOMEN ARE SOLD!

on Inecto Hair Colourings



Inecto House 27 Dover Street London W 1 Hyde Park 7

Inecto Hint of a Tint

A fully blended luxury shampoo plus a little hint of colour, in one sachet, for regular weekly use. Retail price 1/2d a sachet. Wholesale price 8/- a dozen plus P.T. Available in an attractive counter display box, complete with colour selector, which contains 1 dozen of each of the shades. Wholesale price 40/- plus P.T.

STOCK INECTO
FOR BIG SALES . . .
G PROFITS!

Inecto Hair Magic

An easy-to-use semi-permanent colouring available in three series—Shampoo, Brush-On and Fantasy Series. The Brush-On has been created to cover and colour hair up to 50% grey and to restore colour to faded hair. Retail price 3/6d. Wholesale price 2/- per bottle plus P.T.

Inecto Hi-Lift

The lanolised ultra bleach for lightening and brightening the hair or for white bleaching. Retail price 3/6d per carton. Wholesale price 2/- per carton plus P.T.

Inecto Crème Hair Lightener

A soft, gentle cream which lightens the hair 3 to 4 shades and leaves it in superb condition. Retail price 3/6d per tube. Wholesale price 2/- plus P.T.

Inecto Rapid

A permanent, non-fading liquid tint giving 100% coverage on any amount of grey or white hair. Retail price 4/8d. Wholesale price 2/8d per carton plus P.T.

Inecto Colour Crème

A permanent, non-fading colouring in cream form which gives 100% coverage on grey or white hair. Retail price 6/4d. Wholesale price 3/7d per carton plus P.T.

Inecto Crème for Men

A permanent, non-fading colouring in 6 sensibly masculine shades. It gives 100% coverage on any amount of grey or white hair. Retail price 6/4d. Wholesale price 3/7d per carton plus P.T.

Inecto Four-in-One

A permanent, non-fading, oil-based

colouring which lightens, brightens colours and conditions in one application. Ideal for covering grey or white hair. Retail price 4/8d.

Wholesale price 2/8d per carton plus P.T.

Inecto

Hair Colour Stain Remover

An instant-action hair colour stain remover with a delightful perfume. Retail price 2/11d per bottle. Wholesale price 6/8d per carton of 4 plus P.T.

Inecto

Shampoo Hair Colour Remover

An instant hair colour remover for semi-permanent and temporary colouring. May also be used as a lacquer remover. Retail price 2/11d per bottle. Wholesale price 6/8d per carton of 4 plus P.T.



The CHEMIST AND DRUGGIST

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Beaten Air

As a statement-issuing body, the Council of the Pharmaceutical Society does not seem to be having the success its frequent practice should ensure. Its latest-but-one statement—on free samples—appears to have been quite widely disregarded. That situation, for many reasons, is more than a pity.

In part this is another instance of the Council's failure to influence people because it has not sufficiently made friends with them. The growing gap between headquarters and membership has been the talk of branches for many months, and now the gap has become an open breach that cannot be papered over. However, the present rebuff could have been avoided by even a modicum of foresight and realism. The Council really did not do its homework properly or promptly.

The first intimation by Vick International, Ltd., of its proposed free sample scheme was made, apparently, in July. Then, and approximately a month later (in a letter to the company) the Council "made it clear" that the scheme was objectionable and that "if it were launched," the Council's views would be published. If to "make clear" is to explain clearly, that is useful and valuable but not enough. The argument must be pressed home until it is either accepted or rebutted. Only at that point, in our view, has it been "made clear."

It seems to have been assumed by the Council that mere expression of its views, lucidly worded, would end the matter. The company, spotting that nothing was to happen until *after* the launch of the scheme, and perhaps taking the realistic view that the Council could do nothing effective to discipline a member who had handed out samples by that time, went ahead with the preparations for the launch. The Council did not meanwhile go ahead with the preparation of its statement. That, in consequence, had to be prepared in haste, and the evidence of its having been hurriedly put together is only too clear. Again it was issued on the bland assumption the Council's slightest word would be law to its members. Unfortunately, by the time it reached them, many had already handed out samples, and most had been faced with customers' requests for them.

Did the statement even carry conviction? Unquestionably it was sincere, but its catalogue of reasons invited argument, and almost provided within it an excuse for disregard. It had the weakness that there was no sanction behind it, and the inconsistency that appeals to professional ethics were assorted with appeals to commercial self interest.

One simple declaration that no exploitation of the pharmacist's qualification by outsiders for commercial reasons could be tolerated, one simple declaration that it was not in the public interest that medicines should be broadcast to all and sundry; sick or well, old or young, would have commanded the intellectual assent and effective co-operation of members—provided always it had been received and assimilated before the damage had already been done.

Instead, the fact that the statement appeared in the public Press, while many members of the public have nevertheless received their free samples, advertises to the public that a pharmaceutical chemist is not bound by the ethical standards put forward by his professional body. Alternatively, if he has adhered to the statement, then he will be regarded by some of his customers as denying them something to which they are entitled, and which they can find others ready to supply.

If it was never intended the statement should be backed up by disciplinary action against offenders, then it would have been better to have said nothing at all.

Pitfalls in Commission Agreements

WHENEVER a person instructs an agent to find a purchaser for his premises or his business, he should take the greatest care to express his authority to the agent in such a way that commission does not become payable if no sale is effected.

It is unwise to give any agent the sole agency for then, if the seller should find a purchaser by his own efforts, or through the introduction of some other agent or person, he may find that he is liable to pay commission by way of damages to the sole agent. Generally commission is payable where the agent finds a person ready, willing and able to purchase. The fact that the intending purchaser might be quite ready and willing to buy is clearly not sufficient in itself; for the proposed purchaser may be a "man of straw," and without the necessary finance to pay the purchase price. Apart from those generalisations, it is important that the proposed seller should be watchful and, when asked to sign a document, to see to it that it does not contain any clauses or words that would render him liable to pay commission, even though a sale may be effected through some other person or no sale takes place. Cases in the courts in which special clauses have been construed should be noted.

In one recent case a cafe proprietor instructed an agent to sell his business which he held on lease. The terms of the agreement provided that "if, within three months, any person introduced by the agents entered into a legally binding contract to purchase the business and property, commission would be payable." The agents introduced a purchaser who was ready and willing to purchase and who was financially able to do so. The intending purchaser paid the deposit to the agents and entered into a contract to purchase. That contract contained a clause requiring the intending purchaser to "submit suitable and acceptable references for the landlord's approval." There was accordingly a warranty that the proposed purchaser was in a position to provide such references. The superior landlords, however, refused to give their consent to the sale because they did not consider the references produced were satisfactory. The sale was not completed. In the circumstances the agent who had introduced the intending purchaser claimed

commission, although there was no sale and the Court of Appeal, by a majority, held that the agent was entitled to the commission. The grounds of the decision were that the event for which commission was payable was the introduction of a person who entered into a legally binding contract. The event had happened since the intending purchaser had entered into such a contract to purchase the premises and business, and it therefore entitled the agent to his commission, notwithstanding that the sale had not been completed for the reason that the superior landlords did not consider the references satisfactory.

One member of the court stressed the point that the intending purchaser had expressly agreed to "submit suitable and acceptable references." That was an obligation undertaken by the proposed purchaser, and the view was expressed that the purchaser had broken the obligation in failing to produce satisfactory references. In consequence damages for such breach could be claimed. The decision of the majority of the Court of Appeal, therefore, appears to have been influenced by

the fact that the proposed seller, who would have to pay the commission, could recoup himself his loss by claiming and recovering damages from the proposed purchaser in respect of a breach of contract in failing to provide satisfactory references. That part of the reasoning of the court appears to establish a new and important point affecting would-be purchasers.

According to that ruling, a person proposing to purchase may lay himself open to a claim for damages at the suit of the proposed seller when he enters into an express contract to provide suitable references. Such an obligation would also be implied in any case, and it would appear that the proposed purchaser would run a similar risk even in the absence of an express clause to that effect. The conclusion is inescapable that proposed purchasers should avoid such pitfalls by expressly providing, in any contract for purchase, particularly of leasehold premises, that they are to be under no liability should their references be unsatisfactory, whether to the proposed seller or to any other person whose approval might be necessary before the sale could go through.

PHARMACEUTICAL SOCIETY OF GREAT BRITAIN HARDSHIP IN EXAMINATION REGULATIONS?

Recommendations for Conduct of Branch Representatives' Meetings

THE report of the Education Committee and its chairman (Mr. H. S. Grainger) came under fire at the monthly meeting of the Council of the Pharmaceutical Society in London on October 2. The Committee reported that the concessions from the examination regulations commonly requested had been considered and it had been agreed that students should be told to comply with the requirements on practical training as set out in paragraph 6 of the examination regulations.

That "no period [of practical training] undergone between the commencement of the three-year course of study . . . and satisfying the Examiners in each of the three parts of the Examination . . ." could be recognised.

The Committee had resolved that no concessions should be granted from the requirements of the paragraph relating to the commencement of practical training.

Implications

MR. T. HESELTINE wondered whether Council members appreciated the implications of that. He quoted the case of a student who had passed his first and second examinations and failed in one subject at the third. The boy had, thereafter, been unable to go to school for a considerable time and had asked permission to do his training during the interval. That had been considered by the Education Committee as "not quite proper," and Mr. Heseltine asked for the views of other Council members. MR. GRAINGER explained that the situation had arisen because of the new regulations recently introduced, which had been well publicised. The Committee felt it would be a retrograde step to grant such a concession. Someone who had failed to pass all the subjects of the final examination could not concentrate properly on preparing to resit the examination and at the same time undertake the duties of practical training. If the person passed at the next sitting, there would have been a deferment period of about six months.

MR. W. J. TRISTRAM questioned the six-month period, and suggested it might prove longer. MR. GRAINGER agreed that that might be so, if the student failed a second time, but emphasised that it would be unwise to grant the concession.

The treasurer (MR. H. STEINMAN) did not agree that the matter had been well publicised.

MR. A. HOWELLS challenged the statement of Mr. Grainger that a student could not give his mind to preparing for

an examination. He thought that depended on the student. MR. GRAINGER explained that the regulations had come into force when the three-year system began to operate. He thought that those who disagreed with his statement that a student could not apply his mind properly to the examination were underestimating the standard of work and intellectual effort necessary to pass the final examination.

Referring again to the case of the boy who had failed, MR. HESELTINE said that, at the time of the examination, the boy had been suffering from hay fever. A concession might mean a great deal to a student, and it did not seem too much to ask.

MR. H. WILLIAMS maintained that rules and regulations should be obeyed. "I do not know why Mr. Heseltine should go to such great lengths over the case of one person when a period of only six months is involved." MR. HESELTINE protested that it was not just a question of one case.

A motion by MR. TRISTRAM, seconded by MR. STEINMAN, to refer the item back for further consideration was defeated.

It was also reported that seventy-five entrants into pharmacy had been granted permission to commence practical training under the provision in paragraph 6 of the regulations. Those entrants had already obtained two of the required three subjects at advanced level and had sat the third subject unsuccessfully.

Branch Representatives' Meeting

A report on the Organisation Committee meeting was given by the chairman (MR. A. ALDINGTON). He said the Committee had discussed criticisms and suggestions made by MR. J. P. KERR on the current procedure for Branch Representatives' meetings, and it had been recommended that:—

1. A branch submitting in December a motion or motions for discussion at the Branch Representatives' meetings in the following May be invited to send to headquarters one person with authority to discuss them with the chairman of the Organisation Committee and headquarters officials.

2. That the rules of procedure for Branch Representatives' meetings be amended to allow the proposer and seconder of a motion five and three minutes respectively to present the motion, and five minutes to reply to the discussion.

(To be concluded)

FIGURES IN THE PHARMACEUTICAL WORLD

It does not always or necessarily happen that the member elected to highest office in a professional body is the person best fitted to deal with the one problem that arises most urgently during his presidency. Irish pharmacy can therefore congratulate itself that in 1963/64, when the problem of financing pharmaceutical education in the Republic has had to be negotiated (see p. 384), it has had as principal spokesman a leader who was brought into public life by the intensity of his interest in education and professionalism.

Donal Kennelly entered the pharmaceutical profession under good auspices. A native of Skibbereen, co. Cork, he was taken on as apprentice in 1933 in the high-ranking pharmacy of S. B. Lester, Cork. Stanley Lester, his apprentice-master, acknowledged to be one of the finest pharmacists in the South, had a particular interest in and knowledge of pharmacology. Into his pupil he inculcated an appreciation of the importance of knowing the function of the drugs he was called upon to dispense or handle. That awareness has remained with him.

One may be sure, too, that close attention was paid in that "little Belfast of the South" to his training in the principles of business and management. There were certainly ample hours for instruction, for the pharmacy remained open on weekdays until 10 p.m., on Saturdays till 11.30 p.m. For the apprentice there was furthermore a Sunday morning duty every third week. Its opening hour of 10 a.m. was constant. Its closing hour less so, for it depended on the time at which "the last Methodist passed up" (the Methodists being notoriously later in ending their devotions than the more numerous Catholics, though none the less to be cultivated as customers at the pharmacy). Such a waiting upon the clock might well engender in a young apprentice a healthy hostility to Methodism, but in the future president of the Society it only coloured with a tinge of humour a natural tolerance which he has always found it easy to practice to those whose views on any subject diverge from his own.

His four-year apprenticeship ended. He went north to Dublin to study at the Pharmaceutical Society's school and to qualify in 1941. In the Irish capital he held one part-time post (at Howth) before accepting the charge of travelling to Ennis, co. Clare, to bring to a decent end a pharmaceutical business that it was known could not long survive. It duly closed, and he was back in Dublin, this time to become associated with another pharmacist of exceptional character and distinction, the late Mr. Fawcett Maxwell. Maxwell's pharmacy at Dalkey was—as it still is, but now under Mr. Kennelly—one of the most professional in Greater Dublin. When Maxwell's brother ("Gentle Willie") established a pharmacy there in 1895 no goods were put on display in its windows. So austere a standard no longer obtains, but the present proprietor has lived up to the plea of his predecessor and former employer to "keep it as professional as you can."



MR. DONAL KENNELLY

It has still, probably the largest dispensing turnover in South Dublin.

From his earliest days at Dalkey Donal made it his practice to attend the annual meetings of the Pharmaceutical Society of Ireland, and almost invariably found himself speaking on some matter of professional practice that came up for discussion. He had at that time no thought of taking up pharmaceutical politics by standing for election to the Council, but the calibre of his contributions to the discussion was noted by others. When, therefore, the late Mr. J. J. Roche died, the then president approached him and, his consent being forthcoming, he was co-

opted in June 1952 to fill the vacancy. His first meeting as a Council member, incidentally, was also the last on which the Council met at its old Mount Street headquarters. Kennelly's facility as a speaker matured, aided by an active participation in the Chemists' Debating Society and his duties as student liaison officer.

The year 1956 brought him into special prominence as local secretary for the Dublin meeting of the British Pharmaceutical Conference, where he endeared himself to English visitors with a (probably premeditated) Irishism in his first official announcement from the platform; since then he has

been a regular attendee at Conferences. He was treasurer of the Society, 1961-62, going straight into the presidency in October of the latter year. While still treasurer he had been appointed to the Comhairle na Nimheanna (the Poisons Board), and in the negotiations that went on with the Government over the piloting through the Dail of the new Pharmacy and Poisons Bills

he took a specially active part.

Pharmaceutical education continues to be, however, his dominant interest, and the tenacity that is apt to pass unnoticed beneath a much more immediate image of his charm will be an asset to the Council in its difficult diplomacy. A happy omen for success is the close friendship that exists between the president and his near neighbour,

residentially speaking: the Society's secretary and registrar, while the serenity of his home life with Mrs. Kennelly is clear from the fact that it stood proof against a by no means undistinguished incursion into her prize-winning field of floral arrangement. Success to his year of office and continued success to the educational plans of the Council!

Onward from Galen

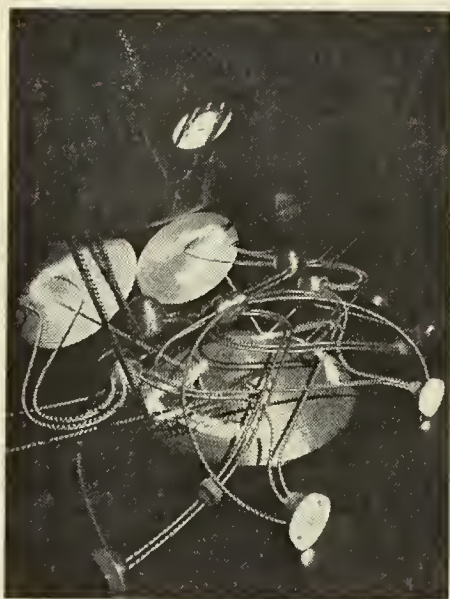
SIDELINES OF CURRENT COMMENT

★ WORTH SEEING INDEED ★

DRY things, books, don't you think? At all events a Centenary Conference visitor, touring the Society's house during one of the periods in which it was thrown open to inspection, was overheard calling a friend to look at the library: "Oh, do come in here—they've got other things besides books."

★ MODELS AS MENTORS ★

How the artist can contribute towards clarifying scientific knowledge is the theme of an exhibition "Visual Aspects of Science" on view at the R.C.A. Galleries at the Royal College of Art, Kensington Grove, London, S.W.7, until November 2. Designed by Will Burton, New York, in collaboration with the American Upjohn Co., the exhibition features a series of images and models derived from atomic structures, electron microscopy of human cells, and theories of metabolic pathways. Its outstanding exhibit is certainly the "Upjohn brain"—a complex assembly of huge aluminium discs, wires and multi-coloured electric lights that schematically simulates aspects of brain structure and function. Red patterns in the memory cortices serve to indicate visual memories, and are accompanied by images on the "consciousness screen"; green patterns are sound memories and are accompanied by noises in the sound system. In a nine-minute programme the model depicts events that actually take place in a fraction of a second in the human brain. The model, 24 ft. in diameter, is 12 ft. high and cost something in the region of £30,000 to build and develop. Today, when the volume of scientific information is increasing at such a rate as to tax conventional channels of communication to their limits, the models still have much to recommend them as devices by which the expert and uninitiated alike may more easily and directly understand the patterns of nature. The exhibition demonstrates that the creative artist can collaborate valuably with the creative scientist.



RED LIGHT: The chemist must be preserved. He is a professional man, the quality of his products can be taken as guaranteed; through National Health Service dispensing the nation's health needs are largely in his hands. But his business is dwindling in the face of competition from "non-professional" traders and, incidentally, the fact that prescriptions on National Health payments (750 a month) give him merely 12½ per cent. on cost—8 per cent. on retail—a small reward for his work.—*New Daily*.

NEW FILMS

Early Warning

CYGNET FILMS for *Ames Teaching Service* (Ames Co., division of Miles Laboratories, Ltd., Stoke Court, Stoke Poges, Slough, Bucks). 16-mm. Colour. Sound. Running time 18 minutes.

THE film shows by practical example the application of urine testing and gives detailed instructions on the techniques that must be used to obtain reliable results. Case histories of patients in general practice, an ante-natal clinic, a medical ward, a casualty department and an industrial medical centre are shown by way of illustration. Copies of the film may be borrowed. Application should be made to the company.

The Brink of Obesity

CYGNET FILMS, LTD., for *Riker Laboratories, Ltd.*, Loughborough, Leics. 16-mm. Ektachrome colour. Optical sound. Running time 15 minutes.

DIRECTED to medical audiences but available to pharmaceutical on application, the film aims to substitute the conception of "desirable" weight for that of "average" weight as the standard by which overweight should be measured. It points out, in support of the contention, that average weight has increased, under rising standards of living, to a level at which it can no longer be regarded as a valid standard. "Total energy output does not keep pace with total calorie intake," whereas mortality is generally lowest in people below average weight. The important thing for the doctor is to observe the early indications of obesity and to steer his patient away from its brink.

Long-term Care After Gastrectomy

DEPARTMENT OF SURGERY, QUEEN ELIZABETH SCHOOL, UNIVERSITY OF BIRMINGHAM. Medical authority: J. A. Williams, F.R.C.S. Sponsors: *Glaxo Laboratories, Ltd.*, Greenford, Middlesex. 16-mm. Colour. Sound. Running time 24 minutes.

MOST surgical operations involve physiological consequences unrelated to the improvement at which the operation is aimed. The film shows how the various types of operation may affect food digestion and absorption. It examines in particular the long-term effects that call for vigilance by the patient's doctor, and make demands on his knowledge. Animated diagrams compare normal digestive processes with the modified physiology after surgery, and explain how post-operative symptoms may lead to disorders of blood and bone metabolism many years later. Deficiency states are specially insidious, since they may not be detected until advanced disease is present. The commonest is anaemia associated with iron and vitamin B₁₂ deficiency. Calcium deficiency may cause bone disease. The film shows not only how those deficiency states arise, but how they may be detected. Suitable treatment is described. The film ends by reminding surgeons of the need to inform the patient's doctor of the details and significance of the operation performed. Primarily prepared for medical audiences, the film may not be too suitable for showing to pharmacists. Copies may nevertheless be borrowed for that purpose from the film library of Messrs. Glaxo.



Fibrescope examination of the stomach for signs of recurrent ulceration after partial gastrectomy.

Evolution of Single-dose Medicines

SURVEY GIVEN AT HISTORY-OF-PHARMACY CONGRESS

AT the fourth session of the congress of the history of medicine and pharmacy held at Nottingham, September 20-23 (see also *C. & D.*, September 28, pp. 334-35 and October 5, p. 371), MR. COLIN GUNN (head of the school of pharmacy, Leicester) outlined the history of some pharmaceutical preparations.

Mixtures, elixirs, draughts and other forms of fluid medicines, he said, had been used since the earliest days of medicine. They included solutions, suspensions and emulsions, of which measured doses were directed to be taken. Later tendencies sought to provide medicines in convenient dosage form, and much ingenuity had been shown in developing pills, sachets, hard and soft capsules, compressed and moulded tablets and single-dose injections in ampoules. Apart from pills, the origin of which was lost in antiquity, all the others mentioned had been introduced between 1833 and 1866.

Tasteless Pills

In the United States of America, the sugar-coated pill or tasteless capsule, especially if attractive in appearance, was often preferred to liquid medicines, which were inconvenient to carry and often bitter or nauseous in taste. Though practically all the single-dose forms mentioned had been devised in Europe, the Americans were particularly successful in exploiting them, delighting in evolving automatic machines from manually operated apparatus. The pill, which today had largely fallen into disrepute, or some form of lozenge, was the first single-dose unit. It offered a fairly accurate dose in a convenient form. Pills had been in use in ancient Egypt and Mesopotamia, and there was some evidence that the Romans prepared pills by

dividing a plastic mass on a grooved stone. Graduated pill tiles were first introduced in England in the eighteenth century. Pill machines similar to those still occasionally used today are referred to in Diderot's "*Recueil de Planches sur les Sciences*" (1763). Machines were devised to mass-produce pills, and one such, illustrated in Remington's "*Practice of Pharmacy*," ninth edition, is capable of making a million pills in ten hours. From a booklet published by John Richardson & Co. (Leicester), Ltd. (1893), in which the company is described as the largest pill factory in the world, it appears that the company had registered over 22,000 prescriptions for pills, exclusive of the pharmacopoeial and their own published formulas (normal stock of Bland's pills was $\frac{1}{2}$ ton). Disintegration time in the stomach being variable, not surprisingly pills were now largely replaced by compressed tablets and capsules.

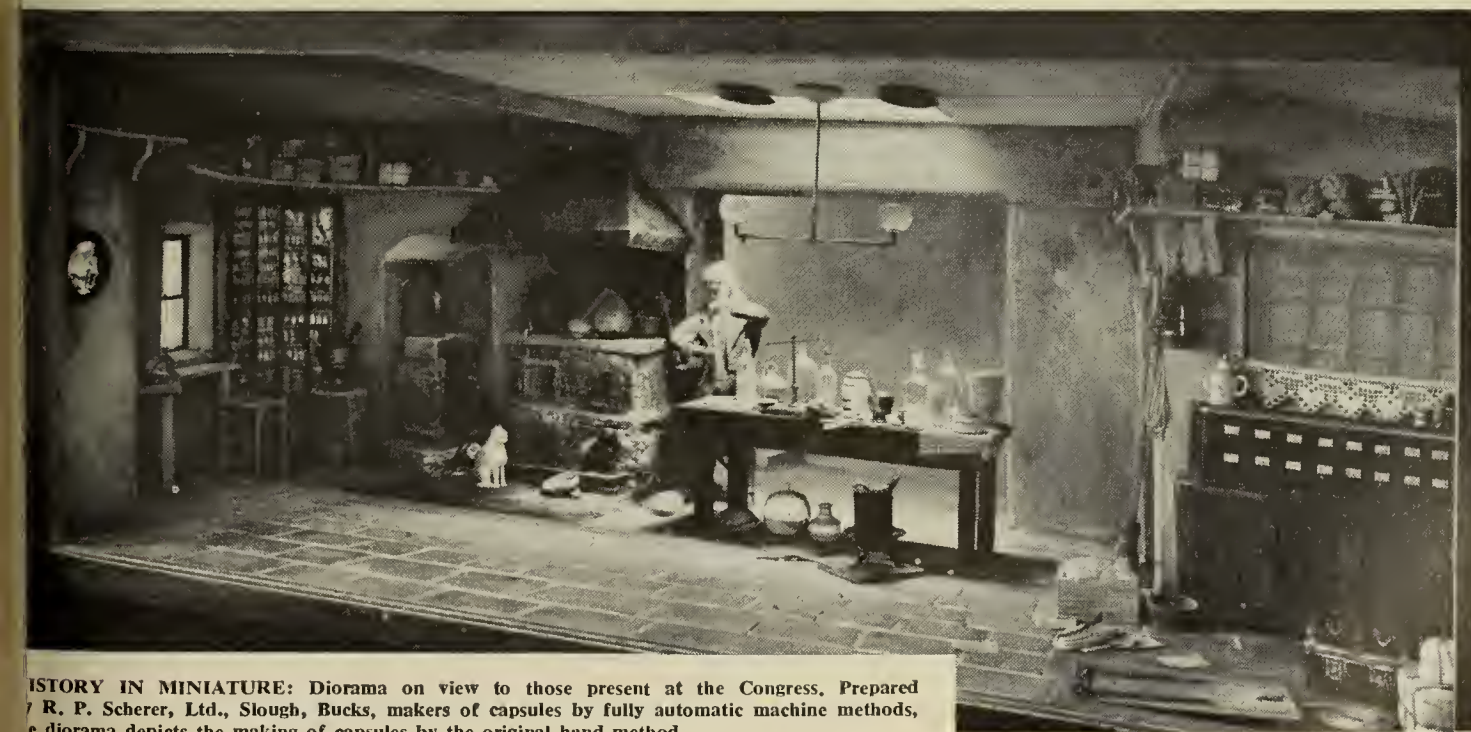
Soft Gelatin Capsules

A French pharmacist (F. A. B. Mothes) had devised the first soft-gelatin capsule and he and a collaborator (J. G. A. Dublanc) were granted a French patent in 1834. Their apparatus consisted of an elongated funnel ending in a tube to which a small bag of fine skin was attached. In use, mercury was poured into the funnel to fill and distend the bag, which was then the size of a small olive. The bag was dipped into a warm concentrated gelatin solution, removed and dried to leave a skin of gelatin. When the mercury was poured out by inverting the apparatus, the bag collapsed and was withdrawn, leaving an empty gelatin capsule. A medicament was placed in the capsule by means of a pipette and the opening sealed by some gelatin solution. The method proved satisfactory for exhibit-

ing nauseous medicines but was clumsy and tedious in operation. Similar gelatin capsules were later made by using metal "olives" or moulds from which the elasticity of the capsules when dry enabled them to be easily slipped off. The modern rotary-die process, invented in 1932 by R. P. Scherer, produced capsules with a weight variation of ± 2 per cent. Two side-by-side horizontal, contra-rotating cylinders, in which die cups were cut, determined the size of the capsule. Two preformed gelatin films flowed between the die cylinders, and the medicament was injected under pressure from orifices along the knife edge of an injection wedge positioned between the two gelatin films immediately above the contact line of the die cylinders. In that way the medicament distended the gelatin film into the die cups and thus moulded it into shape. The pressure effectively sealed the edges of the capsules.

Compressed Tablets

No pharmaceutical presentation had made so great a change in dispensing practice, said Mr. Gunn, as the compressed tablet, yet that form of medication had not been invented by a pharmacist. William Brockedon, who took out a British patent for his apparatus (1843), was a watchmaker, artist, and author, as well as a gifted inventor. Brockedon's apparatus was simple, consisting essentially of two steel punches and a steel die. The powder was to be placed in the die with the lower punch in position, the upper punch inserted and compression effected by "one or more blows," presumably with a hammer. To ensure an accurate quantity in each tablet he invented a measuring device. F. Newbery & Son purchased Brockedon's invention in 1881. Burroughs Wellcome & Co. (1892), in a letter to THE CHEM-



HISTORY IN MINIATURE: Diorama on view to those present at the Congress. Prepared by R. P. Scherer, Ltd., Slough, Bucks, makers of capsules by fully automatic machine methods, the diorama depicts the making of capsules by the original hand method.

IST AND DRUGGIST, claimed to have been the first to apply the word "tablets" to compressed drugs. The word *Tabloid* was and is, of course, a trade name of the company. Hand punch machines based on Brockedon's principle were later devised. Others incorporated new ideas. Prototype of the modern rotary tablet machine was that of Allen & Hanburys (1903), which used the principle of the punch track passing between two wheels to obtain compression. Mechanisation introduced problems of "picking" and "binding." A United States process patent for the preparation of powders for compression was taken out in 1875 by Jacob Dunton, a wholesale druggist of Philadelphia, U.S.A. It involved drying the powders to reduce their adhesion to the punches and dies (often greater than the cohesion between the particles) and lubricating the punches and dies between each compression with oil or a solution of oil in a solvent.

Another problem that exercised the early tablet makers was how to make a tablet for oral use that would break up in the stomach when swallowed. Credit for solving the problem was due to Charles Killgore (1887) who, after being refused a United States patent, described his discovery to Dr. Kebler (1914) in a private communication. He used starch to prevent the powders sticking to the die and found that some of the tablets, left beside a sink, had absorbed a considerable amount of moisture, causing them to crumble to powder when touched. Conversion of powders into granules as a preliminary to compression must have been known at an early stage, "but I have been unable to trace any record of the origin of granulation for this purpose." A recently developed rotary tablet machine, made by F. J. Stokes, Philadelphia, was capable of compressing powders, thus rendering unnecessary the various processes and apparatus required for the preparation of granules. A special feed frame ensured that the powder was gently forced into the dies.

Pill and Tablet Coating

Wootton's "Chronicles of Pharmacy" (Vol. I) recorded the coating of pills by Rhazes and by Avicenna the former using a mucilage of psyllium seeds and the latter silver and gold. Primary object of coating was to mask the taste of bitter drugs, but gilding and silvering were also considered to improve the medicinal effect. The method was largely abandoned by the beginning of the present century. Simplest method of coating pills at the dispensing counter was varnishing; gelatin coating also had its period of favour, an early method being to dip the pills, impaled on needles, into a warm gelatin solution. When dry the pills were removed from the needle and the needle hole closed by touching with a hot rod.

The introduction of sugar and pearl coatings soon placed pill coating firmly in the hands of the manufacturer. The elegant appearance of sugar-coated pills was a tribute to the confectioner, from whom the pharmacist acquired the art. In France, the sweetmeats were known

as *dragées*, and it was in France that the sugar coating of pills was first essayed. Best evidence of precedence belonged to a Frenchman, Fortin, who obtained a French patent (1837) for sugar coating pills of cubeb and copaiba. Sugar coating on a small scale at the dispensing counter was not successful, but excellent results were obtained by the "pan coating" method extensively used today for both pills and tablets. The time-consuming and tedious nature of the process exercised several inventive minds towards sugar coating by compression, and an early and rather crude method of pressure coating was patented by Carter (1878). It involved coating a die with dry powdered sugar and adding the medicament centrally. More powdered sugar was added to cover the drug, and a tablet was formed by compression. A British patent was granted to Noyes (1896) for a machine that compressed a preformed tablet between two layers of sugar. Kilian (1937), devised in Germany a press-coating machine with a centring device to ensure that the preformed tablet would lie centrally in the die, so becoming covered equally all round.

Pearl coating consisted of purified talc and other suitable adhesives. Though the coating was often said to be highly insoluble, the method was used to the exclusion of other methods by John Richardson & Co., Leicester, Ltd., whose centenary booklet (1893) alleged that the process of sugar coating seemed to destroy the remedial value of many formulas. "We adopted the pearl coating which we now use because the verdict of trial and experiment were in its favour, and many thousands of medical men and chemists have emphatically and practically endorsed our decision." Whether the coating was as good as the makers claimed might be questioned, said Mr. Gunn, but it was certain that, during the latter part of the nineteenth century and the first quarter of the twentieth, prodigious quantities were sold.

The first enteric coating was credited to Unna (1884). He used a keratin solution to "varnish" pills so that they would pass through the stomach and disintegrate in the intestine. Since that time numerous substances (salol, fatty acids, waxes, gelatin coating treated with formaldehyde, and mixtures of fatty acids with waxes and fibrous materials such as agar and elm bark) had been tried in an endeavour to find a completely satisfactory coating.

Numerous patents taken out in Europe and the United States since 1930 indicated a revival of interest in enteric coating.

Hard Gelatin Capsules

Griffenhagen (1957) and Norris (1961) conceded that the hard two-piece capsule was a British invention. Certainly a British patent for "Capsules for Protecting Medicinal and other Preparations" was granted to James Murdoch, an Englishman, in 1847. The use by Murdoch of the words "communicated to me from abroad" indicated, however, that Murdoch was not the originator. As described in the patent, his capsules were similar to those used

today, with one part overlapping the other to form a cylinder with hemispherical ends and sealed by wetting the overlapping surfaces. Hard-capsule development was eventually developed with enthusiasm in the United States. Hubel (1887) patented several capsule-making machines and sold his capsules through Parke Davis & Co., Detroit. According to Norris (1961) two modern machines had an output of 300 million capsules a year. The capsules were made by a dipping process, using stainless steel pins on which to mould the parts.

Cachets

Limousin (1831-87), a French pharmacist, was undoubtedly the inventor of the cachet, though the administration of powders with a bitter or otherwise unpleasant taste enclosed in unleavened bread had been previously known. Such methods were clumsy. The simplicity, neatness and practicability of Limousin's invention caught the imagination. Describing it, he had said that in cutting with a punch (of which the edges were accidentally damp) small discs of unleavened bread [for administration of drugs], he had noticed the complete adherence of many of the discs, which were joined by their edges, due to the moisture. "I thought that the powder measured and enclosed in two small discs of unleavened bread could be given to patients in this form with certain advantages . . . I then thought of resorting to the process of punching described in my patent, in order to impress in the discs a sufficient concavity to contain the powders." Amongst Limousin's numerous inventions were the ampoule for injection solutions, the automatic pipette, apparatus for oxygen therapy, a standard dropping tube and a number of others.

Parenteral Injections

The possibility of introducing drugs into the body by the veins appeared to have been first considered soon after the discovery of the circulation of the blood by Harvey in 1628. First intravenous injection (into dogs) was credited to Wren (1656) when professor of astronomy at Oxford, and the first transfusion of blood was performed by Denis, physician to Louis XIV, in 1667. One of Denis's patients died after a transfusion, and the practice was made illegal in France, England and Italy. Little experimenting was done for about a hundred years.

The first subcutaneous injection is usually credited to Wood (1853). Early intravenous injections were by means of goose quills or silver tubes attached to a bladder, but Wood gave his subcutaneous injections with a syringe and hollow needle similar to those in use today. The work of Pasteur demonstrated the disease-producing effects of bacteria, but only fifty-seven years later did the method become official in the British Pharmacopoeia. Chamberland was responsible for introducing filtering candles of unglazed porcelain in 1884, and similar filters are still in use. Tyndall (1876) devised the method of sterilising by intermittent heating, a method official in the B.P., 1932. Limousin devised the ideal container, the ampoule.

Centenary meeting of the British Pharmaceutical Conference, London

Science Sessions

(Concluded from THE CHEMIST AND DRUGGIST, October 5, p. 375).

THE third paper, presented at the morning session on September 6 by MR. H. Z. YOUSSEF, was

Active Sites in Stereoselective Adsorbents

A. H. BECKETT and H. Z. YOUSSEF

THE formation of adsorbents having stereoselective properties has been previously described and experiments are outlined to ascertain how stereoselectivity is achieved. Treatment of quinine-selective adsorbents by steam, dry heat, heat in presence of water, acid and dry organic solvents destroyed their selectivity whereas the adsorptive power of control adsorbents was almost unaffected. A progressive increase in pH of the adsorbate solutions from pH 1 to 3 increased the adsorptive power of the selective adsorbents more than that of the control adsorbents. Increasing concentrations of sodium chloride in the adsorbate solutions increased the quinine-uptake on the adsorbents. It is concluded that stereoselectivity is due to the formation in the selective adsorbents of "active-site" footprints which preferentially adsorb the molecules used to make them, rather than other molecules. Alternative compounds of not too dissimilar structure, having "like" configuration, fit into those footprints better than do their isomers, though less well than the reference molecule itself. Active sites in stereoselective adsorbents may be used as rough models of active sites in enzymes and of drug receptors in addition to the proven use of these adsorbents in the determination of configuration of organic molecules.

(From School of Pharmacy, Chelsea College of Science and Technology)

DR. ROGERS asked whether the two curves on the graph illustrating the effect of sodium chloride on the adsorptive power of a quinine selective, and on a control, adsorbent would meet if extrapolated. MR. YOUSSEF said they could theoretically be expected to do so, but no practical work had been done in confirmation.

A short communication was next presented by DR. A. H. BECKETT:

Alkaloids from *Mitragyna* Species of Ghana

A. H. BECKETT and A. N. TACKIE

THE known alkaloids rhynchophylline, isorhynchophylline, mitraphylline and rotundifoline, were isolated in investigations on *Mitragyna* species of Ghana (Beckett, Shellard and Tackie, 1963). On the basis of ultra-violet and infra-red spectroscopy studies, N.M.R. spectra and mass spectrometry, the structure of rotundifoline has been established. From *M. stipulosa* and *M. eiliata* another oxindole alkaloid of the same molecular formula was isolated. Unlike rotundifoline, it was soluble in sodium hydroxide solution and its ultra-violet spectrum changed upon changing the pH of the solutions. Recently that alka-

loid, now designated *isorotundifoline*, was shown to be an isomer of rotundifoline. It is concluded that those alkaloids are isomeric about C₁. Two new indole alkaloids, designated rhynchociline and ciliaphylline, were isolated from *M. eiliata* by Beckett, Shellard and Tackie (1962) and found to be isomeric. Structural formulae for the isomers are presented.

(From the School of Pharmacy, Chelsea College of Science and Technology, London, S.W.3)

PROFESSOR J. B. STENLAKE was interested in the difference in properties of the two isomers and asked whether the phenolic properties of the quaternary salts had been examined. The answer was that phenolic properties were shown, it was believed, by the quaternary salt of the *iso* isomer. DR. A. R. ROGERS, Brighton, commented that the ultra-violet measurements [shown on a slide] suggested that more than two species were present, but DR. BECKETT stated that mass spectroscopy indubitably indicated a single species. He explained that the equilibrium between the two isomers was dependent on the medium. In acid solution *isorotundifoline* became stable.

MR. C. A. JOHNSON, London, said that, in view of the existence of the OH group of rotundifoline, the lack of solubility was analytically worrying. He asked whether other compounds exhibiting the same sort of behaviour were known, and commented that the use of nuclear magnetic resonance measurements, he believed for the first time in a B.P. Conference paper, was an appropriate innovation in the centenary year. DR. BECKETT agreed that the insolubility in NaOH was at first sight surprising. Two or three other examples of compounds exhibiting that behaviour had been reported by a worker in the University of Wisconsin. DR. C. G. BUTLER, Bradford, wanted to know if the authors had obtained chemical evidence of the phenolic OH group. Dr. Beckett replied that the two active hydrogen atoms in the rotundifoline molecule disappeared on the addition of deuterium oxide. That was good evidence for the presence of the group.

DR. H. D. C. RAPSON, London, wondered if the rates of quaternisation of the alkaloids had been determined sufficiently carefully to enable calculation of the energy of activation. He added that hydrogen bonding produced "remarkable effects"; were there differences in the thermostability of the two isomers in the dry state? To the first point the answer was "No." Hydrogen bonding gave rotundifoline remarkable solvent-binding properties. When the non-solvated form was heated, the solvent could be removed "with great difficulty," it melted and was converted to another form with a higher melting point.

The last two papers were presented together by MR. A. HOLBROOK.

Rapid Determination of Griseofulvin in Fermenter Broth

A. HOLBROOK, F. BAILEY and GRETA M. BAILEY

A METHOD has been devised for the determination of griseofulvin in fermenter broths, utilising the change in ultra-violet absorption that occurs when griseofulvin is converted to *isogriseofulvin*. The conversion is carried out with methane-sulphonic acid in methanol. The method gives results well within the range of accuracy usually considered acceptable for fermenter-broth samples and, though not fully specific for griseofulvin, has considerable advantage over previously published procedures, both in day-to-day control of plant manufacture and in assessing the results of mutant screening experiments.

Quantitative Chromatographic Method for the Determination of Griseofulvin Purity

A. HOLBROOK, F. BAILEY and GRETA M. BAILEY

METHODS for determining griseofulvin in fermenter broth fail to differentiate fully between griseofulvin and structurally similar contaminants present. Small amounts of those in the final product would go undetected by such methods. In view of the close similarity between the compounds, preliminary separation of the griseofulvin is essential in any analysis specific to that substance. The chromatographic assay described employs a hexane:methanol:chloroform:water partition system supported on Celite. Separation is followed by ultra-violet measurement of the eluate fractions at 291 mμ. The results, compared with those using the procedure proposed for the B.P., 1963, illustrate the value of the method for both control of pharmaceutical-grade griseofulvin and in process development studies. Much information is gained about the nature and quantity of any impurity present.

(From the pharmaceutical department, Imperial Chemical Industries, Ltd., Alderley Park, Ches)

MR. C. A. JOHNSON, London, asked whether, in the light of the paper, the 1963 British Pharmacopoeial specification for griseofulvin should be strengthened. If so, could the lengthy chromatographic method be avoided by taking the U.V. absorption over a specified range? MR. HOLBROOK said that a simple ratio for U.V. absorption was not possible, as many impurities had spectra similar or identical to that of griseofulvin. He would rather adopt a thin-layer plate method for the B.P. On the question put by DR. FOSTER whether the method was applicable to body fluids or organs, MR. HOLBROOK said that no work had been done on that. DR. GLENN suggested that orthogonal function curves might prove a useful approach to the calculations,

but he agreed with Mr. Holbrook that existing instrumentation did not provide the accuracy required.

The first paper of the Friday afternoon session was presented by DR. E. J. SHELLARD.

Anatomy of the Leaves of *Mitragyna stipulosa* and *Mitragyna ciliata*

PARIROKH SHADAN and
E. J. SHELLARD

THE morphology and detailed anatomy of the leaves, stipules and young stems of *Mitragyna stipulosa* (D.C.) O. Kuntze, and *Mitragyna ciliata* Aubr. et Pellegr. are described. Morphologically it is difficult to distinguish the two species, and the similarity of the anatomical structure supports the evidence that they are closely related. The leaf of *M. stipulosa* is typical of a shade leaf, that of *M. ciliata* of a sun leaf. It may be that the two species are geographical variants that have become established as distinct species.

(From the School of Pharmacy, Chelsea College of Science and Technology, London, S.W.3)

DR. J. M. ROWSON, Bradford, was dubious whether the two plants were in fact separate species or merely ecotypes. DR. SHELLARD admitted that it was not possible on occasions to be absolutely certain where one species began and another ended. Plants had evolved and were still changing. However, no one had yet found the plant with ciliate flowers in the forest or that with non-ciliate flowers in savana. Dr. Shellard felt the two could now be quite easily distinguished.

PROFESSOR J. W. FAIRBAIRN, London, wondered whether the authors had sufficiently emphasised the differences in striations. DR. SHELLARD agreed they were an interesting and important feature for distinguishing the species.

DR. T. E. WALLIS, referring to the reported differences in palisade tissue development, stated that that had been found to vary within the same plant depending on shadedness or otherwise of the leaf. It was also well known that trichome development varied with environment. He did not think those characteristics were sufficiently sound criteria to distinguish between two species. As regards the alkaloid content, it was also established that habitat could greatly effect both their amount and nature. DR. SHELLARD agreed that any of those points if taken in isolation was a dubious criterion, but the three together seemed to him to be "just about sufficient evidence."

DR. S. CHALLEN, London, thought it wise that the differences in cuticular striations were listed as a minor distinguishing factor, as they often varied within a species. He asked if other methods of microscopical examination of the surface had been tried other than the chloral hydrate technique. He also wanted to know how much material had been examined. DR. SHELLARD said the leaves had been examined only in chloral hydrate mounts; and that "a considerable amount" of material had been collected and examined.

DR. B. P. JACKSON commented on the

resemblances between the mid-ribs of the plants, and that of *Uncaria gambia*, on which she had recently been working. She mentioned that three different samples of *U. gambia* she had received (reputedly from the same source), showed considerable differences in cuticular striations and trichomes. DR. SHELLARD agreed there were many similar features; in fact the plants belonged to the same family (Rubiaceae) and subfamily. Two features that he had expected to find (present in other *Mitragyna* species) but which had been missing in *M. stipulosa* and *ciliata* were hypodermis and pericyclic fibres.

DR. A. H. BECKETT agreed with DR. WALLIS that changes in alkaloidal concentration occurred with environment. However in the case of the two *Mitragyna* species the chemical evidence was well in support. Many batches had been examined and definite differences in content always occurred between the two plants.

The next paper was a short communication introduced by DR. C. A. FRIEDMANN.

Structure of Cascarosides A and B

J. W. FAIRBAIRN,*

C. A. FRIEDMANN† and S. SIMIC

SINCE the infra-red spectras of cascariosides A and B were almost identical, it seemed likely that they were stereoisomeric. That the isomerism is to be attributed to the aglycone moiety, and not to the nature or position of attachment of the glycones, was confirmed by hydrolysis in $N/1\cdot HCl$ at $70^\circ C$. under nitrogen, when two different barbaloins (the aglycones) were obtained. Cascarioside A is a glycoside of (+)-barbaloin and cascarioside B of (–)-barbaloin, which may be barbaloin and iso-barbaloin respectively. Glucose was shown to be present in the hydrolysate of both cascariosides, but it accounted for only about half of the glycone, the rest being non-reducing. A five-carbon molecule would fit analytical results, which indicate that the proportion of the latter glycone present is less than that of glucose; that is, the molecular weight is less than 180. The two glycones may be linked to each other and attached to one of the phenolic groups,

or one glycone may be so attached and the other attached to one of the alcoholic groups, of the barbaloin.

(From the *department of pharmacognosy, School of Pharmacy, University of London, and the †Westminster Laboratories, Ltd., London)

DR. W. MITCHELL asked if the authors would exclude the possibility of the two sugar bodies being linked together and in a manner that left the phenolic radicles free but DR. FRIEDMANN said that their evidence indicated that was unlikely.

The last paper was presented by MR. R. GOODEY.

Chromatography in Examining the Reaction between Streptomycin and Ammonia

T. E. COULING and R. GOODEY

A NEW paper-chromatographic method for streptomycin and similar compounds, using a solvent system unaffected by salt content, is described. The solvent system is prepared by shaking sodium hydroxide (15 gm.) in water (150 mls) for one hour with pentachlorophenol (30 gm.) and *n*-butanol (850 mls), any lower aqueous phase being discarded and the upper phase filtered through glass wool. Details of the procedure are given. Quantitative chromatography was also carried out similarly. Tests with solutions of pure streptomycin showed an error of about ± 3 per cent. between replicates. Electrophoresis and microbiological assays were also carried out. The method was used to examine the products of the reaction between streptomycin and ammonia. Mixtures of streptomycin sulphate and ammonium sulphate were found to give rise to three main components on chromatography. Experiments showed the similarity between two major impurities in low-purity streptomycin and the products from the reaction between streptomycin and ammonia. The presence of those compounds causes the microbiological and maltol methods of streptomycin assays to give different results.

(From Lilly Research Laboratories, Ltd., Bromborough Research Station, Bromborough, Ches)

PROFESSOR J. B. STENLAKE asked if more information was available on the minor component that gave a zone at R_F 0.23. The answer was that it was present only in small quantities, and that sufficient material had not been available to isolate enough for examination. MR. K. A. LEES, Greenford, wondered if a reaction did occur between ammonia and pure streptomycin or rather with some impurity in the low-grade samples. MR. GOODEY explained that the ammonia reaction had been carried out in the first place with very pure streptomycin samples (purified by a number of techniques). MR. S. G. E. STEVENS, Welwyn Garden City, asked what the basis of the assumption was that the final product was pure. Was washing good enough to extract the excess reagent. The answer was "a normal two-level basis technique" was employed. The reagent was readily removed with five extractions; that was confirmed by linearity tests.



Dr. T. E. Wallis at the microphone, Conference chairman, 1941-43, Dr. Wallis, now eighty-six, is still to be counted on for a sprightly intervention at the science sessions, to which he has been a consistent contributor—on many occasions as author—for more years, probably, than any other member.

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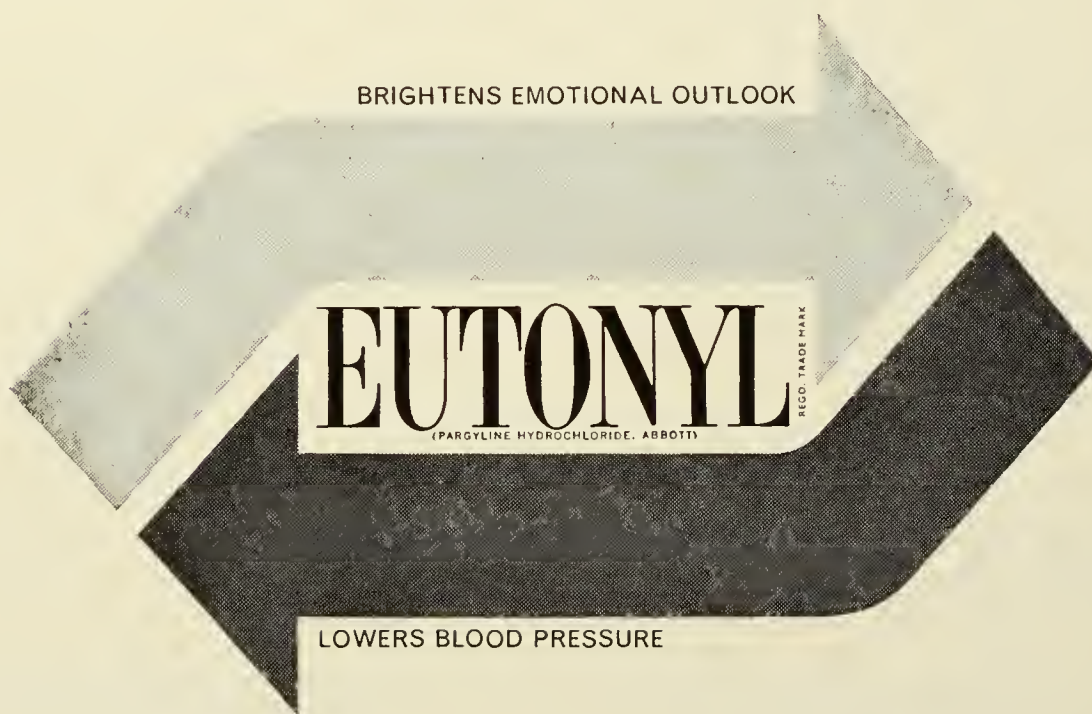


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TRADE REPORT

The prices given are those obtained by importers or manufacturers for bulk quantities or original packages. Various charges have to be added whereby values are in many instances augmented before wholesale dealers receive the goods into stock. Crude drugs and essential oils vary greatly in quality and higher prices are charged for selected qualities.

LONDON, OCTOBER 9: Interest in CRUDE DRUGS continued slow during the week and was restricted to small parcels for covering urgent requirements. There appeared to be no signs of buyers wanting to cover their forward requirements despite a threatened strike of dock workers which may begin early in November.

MERCURY was marked up £1 to £62 per flask of 76-lb. CINNAMON QUILLS, "O" grades, were dearer for shipment although the cheaper grades were marked down. AFRICAN GINGER was unchanged on the spot despite origin not quoting. East Indian NUTMEGS were dearer for shipment but PEPPERS were inclined to be easy. SENEGA quotations improved by threepence per lb. in both positions. The first deliveries of white SQUILL were being cleared at around 40s. per cwt. and there was some doubt as to the replacement position. Among AROMATIC SEEDS Dutch CARAWAY and Indian CUMIN maintained their firm tone but CORIANDER was easier or shipment from Morocco.

In ESSENTIAL OILS Chinese ANISE declined by one shilling per lb. on the spot following the easier tendency at origin. CITRONELLA and PATCHOULI, on the other hand, were a little firmer. Brazilian PEPPERMINT was quoted at 7s. per lb., c.i.f., against 7s. 3d. recently. Spanish OLIVE OIL production is expected to reach 500,000 tons this season against 306,686 last year.

In PHARMACEUTICAL CHEMICALS one supplier of IRON AMMONIUM CITRATE has increased the price of the concentrated solution; the solid form, although unchanged at the moment, is expected to rise accordingly.

SUGAR began moving up as reports were received of hurricane damage to Cuba's crops.

Pharmaceutical Chemicals

ACETANILIDE. — Crystals, one-cwt. lots, 5s. 10d. per lb.; 5-cwt., 2s. 9d.

ALUMINIUM SULPHATE.—B.P.C. in 1-cwt. packs, 1s. 9d. per lb.

AMMONIUM BICARBONATE.—B.P. powder 54 10s. per ton; CARBONATE, £83 10s. for lump and £87 10s. for powder. All in 1-cwt. free kegs.

AMMONIUM CHLORIDE. — One-cwt. lots B.P. powder, 105s. per cwt.; technical grade, 55s.

AMMONIUM SULPHATE. — One-cwt. lots 0d. per lb. for B.P.C. grade.

BENZYL BENZOATE. — B.P. in 1-ton lots, 5s. 6d. per lb.

BISMUTH SALTS.—Prices (per lb.):

Quantity	28 lb. to 1 cwt.	1 cwt.	5 cwt.
	s. d.	s. d.	s. d.
CARBONATE	20 6	20 0	19 6
SALICYLATE	20 3	19 9	—
SUBGALLATE	19 9	19 3	—
SUBNITRATE	18 6	18 0	17 6

BISMUTH AMMONIUM CITRATE is 55s. per lb. and SODIUM TARTRATE, 35s.; OXIDE, 6s. 10d.; OXYCHLORIDE, 27s. 3d.

BRUCINE. — Per oz. ALKALOID is 7s. and SULPHATE, 6s.

CAFFEINE. — ANHYDROUS and MONOHYDRATE for 50-kilo lots and over, 28s. 1d. per kilo; CITRATE, 20s. 11d.

CALAMINE.—Five-cwt. lots, 1s. 10d. per lb.; 1-ton, 1s. 8½d.

MAGNESIUM CHLORIDE. — One-cwt. kegs, 3s. 3d. per lb.

MAGNESIUM HYDROXIDE.—B.P.C., 1-cwt. lots, 3s. 11d. per lb.; 1-ton, 3s. 6d. per lb.

MAGNESIUM OXIDE, B.P.—LIGHT, 1-cwt. lots, 3s. 10d. per lb.; 1-ton, 3s. 7d.; HEAVY, 5s. 10d. per lb.

MAGNESIUM PEROXIDE.—B.P.C. (15 per cent.), 3s. 11d. per lb. for 1-cwt. lots.

MAGNESIUM PHOSPHATE: DIHYDROGEN, 1-cwt. lots, 4s. per lb.; TRIBASIC, 4s. 5d. lb.

MAGNESIUM SULPHATE. — B.P. in minimum 1-ton lots from £20 to £21 per ton according to crystal and manufacturer. Exsiccated, £56 per ton.

MAGNESIUM TRISILICATE. — (Per lb.). Under 5-cwt. lots, 4s. 1d.; 1-ton, 3s. 4d.

MANDELIC ACID.—One-cwt. lots, 12s. 6d. per lb. CALCIUM SALT also 12s. 6d. SODIUM MANDELATE, 13s. and AMMONIUM MANDELATE 50 per cent. solution, 7s. 6d.

PARACETAMOL.—Ten cwt. to 1-ton lots, 10s. 6d. per lb.

PHENACETIN.—B.P. one-ton lots, 6s. 3d. per lb.; 1-cwt., 6s. 9d.

PHENOLPHTHALEIN.—One-cwt. 9s. per lb.

PHOSPHORIC ACIDS. — B.P. (s.g. 1.750) is from 1s. 4d. to 1s. 8d. per lb. as to quantity. B.P. 1914, 1s. 2d. to 1s. 6d. per lb. HYPOPHOSPHOROUS, B.P.C., in winchesters is from 7s. 5d. to 8s. 6d. per lb. as to quantity: drums, 7s. per lb.; 50 per cent. acid in drums, 8s. 9d. per lb.

PHYSTOSTIGMINE.—Per oz. for 4-oz. lots: ALKALOID, 476s.; SALICYLATE, 321s.; SULPHATE, 411s.

PILOCARPINE.—In 1-kilo lots prices are: HYDROCHLORIDE, 1,375s. per kilo; NITRATE 1,128s.

PIPERAZINE.—Less than 50 kilos are: ADIPATE, 19s. 3d. per kilo; CITRATE, 18s. 6d.; HEXAHYDRATE, 14s.; PHOSPHATE, 20s. 6d.; TARTRATE, 19s. 6d.

ROCHELLE SALT.—Powder or granulated, 5-cwt. lots or over in kegs, 220s. per cwt.; 1-cwt., 222s. 6d. (bags less 5s.).

SACCHARIN.—B.P. powder 1 lb. and over 15s. 6d. per lb. SODIUM salt, B.P., 14s.

SALICYLAMIDE. — One-cwt., 6s. 3d. per lb., 5-cwt., 5s. 11d.

SALOL.—B.P.C., 9s. per lb. (1-cwt. lots), SANTONIN.—5-kilo lots, 320s. per kilo.

SODIUM CYCLAMATE. — Fifty-kilo lots offered at 13s. 6d. per kilo in free packages, delivered.

STRYCHNINE. — 100-oz. lots; ALKALOID, 10s. per oz.; SULPHATE and HYDROCHLORIDE, 9s.

SULPHOCARBOLATES.—SODIUM PHENOSULPHONATE, B.P.C., 1949 (powder), 12s. 10d. per kilo in 50-kilo lots and crystals, 12s. 2d. per kilo. ZINC, B.P.C., 1949, is quoted at the same rate.

TERPIN HYDRATE.—Less than 12½ kilos, 11s. 6d. per kilo.

THEOBROMINE. — ALKALOID from 31s. to 36s. 6d. per kilo as to quantity;—CALCIUM SALICYLATE from 34s. 6d. to 39s. 6d. per kilo; and—SODIUM SALICYLATE, 31s. 6d. to 36s. 6d.

THEOPHYLLINE.—12½-kilo lots; ALKALOID ANHYDROUS, 32s. 3d. per kilo and B.P., 33s. 3d.; AMINOPHYLLINE, 29s. per kilo, 12½ kilos; 31s. per kilo.

THIOUREA.—Technical grade, 1-cwt. lots, 3s. 1½d. per lb.; 10 cwt., 2s. 9½d. per lb.

THYMOL.—One-cwt. lots are 11s. 3d. per lb

UREA.—Pharmaceutical grade, £59 15s. per ton in 1-cwt. bags non-returnable; technical quality, £41 5s. per ton (4-ton lots).

CHLOROFORM.—1-cwt. lots in winchesters, 3s. 4½d. per lb.; 56-lb., 3s. 6d. In drums, 3s. 2½d. and 3s. 4d. per lb. respectively.

CHLOROPHYLL. — Water-soluble, 100 per cent. (medicinal grade), 280s. per lb.; oil soluble, 25s. per lb.

CITRATES—Per kilo:—

	50 kilos	250 kilos	1,000 kilos
	s. d.	s. d.	s. d.
SODIUM†	5 4	4 10	4 8
POTASSIUM†	5 7	5 1	4 11
IRON AND AMMONIUM*	8 5	8 1	7 10

†Powder 6d. per kilo more. *Scales 1s. 10d. per kilo more.

DICOPHANE (DDT). — One-ton lots, 2s. 4½d. per lb.

ERGOMETRINE.—MALEATE, B.P., 144s. per gm. for 20-gm. lots; TARTRATE, 27s. 6d. per gm. for 10-gm. lots.

ETHER. — Per lb. in winchesters: B.P. TECHNICAL, B.S.S., 5-cwt., 2s. 9d.; (4s. 4d. per litre). In drums the price is 2s. 1d. per lb. ANÆSTHETIC, B.P., 6-cwt. 3s. 11½d.; 10-cwt., 3s. 7½d.

FORMALDEHYDE.—B.P. solutions, 5-drum lots, 710s. per ton in free drums, delivered.

GLUCOSE. — Medicinal, B.P., POWDER, 66s. 6d. per cwt., delivered in 1-ton lots, 1-4 cwt., 69s.; 56-lb. bags, 36s. LIQUID, basic price, 48s. 6d. cwt.

GUAIACOLS. — LIQUID B.P.C., 16s. per lb., for 1-cwt. lots; CRYSTALS, 15s. 9d.; CARBONATE, 18s.

HYDROCYANIC ACID.—Dilute B.P.C., from 3s. 2d. to 4s. per litre, as to quantity; Scheeles from 3s. 10d. to 4s. 9d.

HYPOPHOSPHITES.—Per kilo:—

Quantity	1 kilo	12.5 kilos	50 kilos
	s. d.	s. d.	s. d.
CALCIUM, B.P.C.	17 2	16 1	15 1
IRON, B.P.C.	34 10	33 7	32 5
MAGNESIUM	29 3	28 2	27 2
MANGANESE, B.P.C.	35 3	33 11	32 9
POTASSIUM, B.P.C.	23 1	22 5	21 4
SODIUM, B.P.C.	19 2	18 1	17 1

IODIDES. — (Per kilo). Potassium, 50-kilo lots, 23s.; SODIUM, 28s. 6d. for 25-kilo lots, AMMONIUM, 46s. 6d.

IODINE.—Resublimed in less than 50-kilo lots, 30s. 6d. per kilo; 50-kilos and over, 29s. 9d. Minimum delivered rate for CRUDE is 18s. 7d. per kilo.

IODOFORM.—Powder (per kilo), 55s. 3d. in 50-kilo lots; less than 50-kilos, 56s. 9d. Crystals are 6s. 6d. per kilo more.

IRON SALTS.—GLUCONATE, B.P.C., 4s. 9d. per lb. in 1-cwt. lots; SULPHATE, B.P., crystals, 1-cwt. 70s. per cwt.; 5-cwt., 65s. per cwt.; granular, 2s. 6d. per cwt. extra. PHOSPHATE, B.P.C., 28-lb., 4s. 5d. per lb.; 1-cwt., 4s. 2d. OXIDE RED PRECIPITATED, B.P.C., 1949, 1-cwt., 2s. 1d. per lb.; CARBONATE, SACCHARATED, B.P.C., 1949, 28-lb., 3s. 3d.; 1-cwt., 3s.—AMMONIUM CITRATE, 250-kilos, 8s. 1d., kilo.—QUININE CITRATE, 2s. 4d. per oz. in 100-oz. tin.

ISOPRENALINE SULPHATE.—One-kilo lots, 530s. per kilo; 5-kilos, 510s. per kilo.

LACTATES. — CALCIUM, B.P., 2s. 3d. per lb. in 5-cwt. lots and 2s. 4d. in 1-cwt. lots; CALCIUM SODIUM, 4s. 9d. and 4s. 10d.

MAGNESIUM CARBONATE. — Per cwt. LIGHT, 129s. or 121s. for 1-ton lots; HEAVY, 175s. for 1-cwt. lots; from 130s. to 135s. for 1-ton lots.

Crude Drugs

ACONITE. — Spot. Spanish *napellus*, 2s. 8d. per lb.

ANISE. — Chinese STAR, 180s. per cwt. spot, duty paid; shipment, 125s., c.i.f.

ARROWROOT.—St. Vincent from 1s. 3d. to 1s. 6d., as to grade.

BENZONIN.—Sumatra block, spot £18 10s. to £35 per cwt. as to quality.

BUCHU. — Spot, 4s. 3d. per lb.; shipment, 4s. 3d., c.i.f.

CALUMBA ROOT.—Mozambique in bond, 85s. per cwt.

CAMPHOR. — B.P. powder nominally 4s. 9d. per lb. in bond. No c.i.f. offers.

CAPRICUMS. — East African on stalk, 150s. per cwt.; Ethiopian, 145s.

CASSIA.—*Fistula*, 105s. per cwt. landed: *lignea* (whole), for prompt shipment, 195s., c.i.f.; selected broken, 185s., c.i.f.

CHAMOMILE. — "Roman" type, new crop, 14s. per lb. October delivery; German type, old crop, 7s.

CHERRY BARK. — Thin natural, 1s. 8d. per lb.; shipment, 1s. 8d., c.i.f.

CHILLIES.—Zanzibar, 170s. spot; shipment, 160s., c.i.f. per cwt. Mombasa spot, 185s.; shipment, 132s. 6d., c.i.f.

CINCHONA.—Druggist's bark, San Tome broken quills (t.a. 8.43 per cent.) 1s. 10½d. per lb. ex wharf. Tanganyikan chips, 1s. 7d. to 1s. 8d. as to test.

CINNAMON.—BARK, Seychelles, 95s. per cwt. spot; shipment, 70s., c.i.f. QUILLS, Ceylon (per lb., c.i.f.): 4 O's, 8s. 1d.; single O, 7s. 4d.; quillings, 4s. 8d.; featherings, 2s. 1d.

CLOVES.—Zanzibar spot, 2s. 10½d. per lb. standard grade; shipment, 2s. 7d., c.i.f.

COCILLANA. — Bark 2s. per lb. on the spot.

COLOCYNTH PULP.—Spot and shipment nominal.

DIGITALIS.—*Purpurea* leaves, 2s. 6d. per lb.

ELEMI.—Spot, 1s. 4d. per lb.; shipment, 1s. 1d., c.i.f.

ERGOT. — Portuguese, 8s. 6d. per lb. spot and 8s. 4d., c.i.f.

GINGER.—(Per cwt.) African, spot 350s. per cwt.; shipment not quoted. Jamaican No. 3 spot, 775s. Cochin, 300s.; shipment, 295s., c.i.f.

HENNA. — Indian, for shipment, 75s., c.i.f.

HONEY. — (Per cwt.) Australian light amber, 160s. to 162s. 6d. and medium amber, 155s. to 160s. Argentine, 170s. to 172s. 6d.; Jamaican, 152s. 6d. to 157s. 6d.; Canadian, 170s. to 172s. 6d.; Mexican, 155s. to 160s.; all ex warehouse.

IPECACUANHA.—Shipment (c.i.f.): Matto Grosso, 70s. per lb. nominal; Costa Rican, 92s.; Colombian, 70s. Spot offers of Costa Rican at 94s. and Colombian, 72s. 6d.

JUNIPER BERRIES. — Italian, 140s. per cwt.; German, 145s. spot.

KARAYA. — No. 1 gum, spot nominal; No. 2, 325s. per cwt.

LEMON PEEL.—Spot, 1s. 6d. to 2s. 3d. per lb. according to quality.

LINSEED. — Whole, 72s. 6d. per cwt.; crushed, 110s.

MALEFERN.—Root for shipment quoted at 75s. per cwt., c.i.f.

MENTHOL. — Chinese: spot, 37s. 6d. per lb. duty paid; October–November shipment, 34s., c.i.f. Brazilian, 23s. in bond; shipment, 23s., c.i.f. Formosan, 27s. 6d. in bond; shipment, 26s., c.i.f.

MERCURY.—Spot ex warehouse has risen to £62 per flask of 76 lb.

NUTMEGS.—West Indian 80's, 8s. 6d. per lb.; defectives, 7s. East Indian for shipment: 80's, 7s. 7d. per lb.; 110's, 7s. 3½d.; defectives, 5s., c.i.f.

NUX VOMICA.—Cochin, 75s. per cwt. on the spot.

ORANGE PEEL. — Spot: Sweet ribbon, 1s. 8d. per lb.; bitter quarters: West Indian, 10½d.; Spanish, 1s. 4d.

PAPAIN. — For shipment: East African white, No. 1, from 37s. 6d. to 40s. per lb., c.i.f.

PEPPER.—White Sarawak spot, 2s. 11d. to 3s. 2d. per lb.; prompt shipment, 2s. 10d., c.i.f. Black Sarawak spot, 2s. 7d.; shipment, 2s. 5d. Black Malabar, 320s. per cwt. spot; shipment, 290s., c.i.f.

PIMENTO. — Spot quoted at 728s. per cwt.; shipment, 580s., f.o.b.

PODOPHYLLUM.—Spot, per cwt.: *Emodi*, 235s.; shipment, 230s., c.i.f.; *Peltatum*, 365s. spot.

QUILLAIA.—Spot, 155s. per cwt.; shipment, 125s., c.i.f.

RHUBARB. — Chinese spot cleared; shipment offers available from origin.

SAFFRON. — Mancha superior about 200s. per lb. spot.

SARSAPARILLA. — Jamaican native red spot, 2s. 11d. per lb.; shipment, not offering.

SEEDS.—(Per cwt.) ANISE.—Spanish, 280s., duty paid. CARAWAY. — Dutch 167s. 6d., duty paid. CELERY. — Indian unchanged at 175s., spot; shipment, 142s. 6d., c.i.f. CORIANDER.—Moroccan, 62s. 6d. duty paid for current crop, old offered at 60s., duty paid; shipment easier at 52s., c.i.f. CUMIN.—Firm. Spot, Indian, 192s. 6d.; Iranian, 195s., duty paid; shipment Iranian, 175s., c.i.f. DILL. —Indian, 77s. 6d., spot sellers; shipment, 53s. 6d., c.i.f. FENNEL.—Indian, 125s., spot; shipment, 112s. 6d., c.i.f. FENUGREEK. —Moroccan, 50s., duty paid; shipment, 37s., c.i.f., quoted. MUSTARD.—English, 47s. to 75s., according to quality.

SENEGA. — Spot, 15s. 6d. per lb.; new crop for shipment, 15s. 3d., c.i.f.

SHELLAC.—F.O.T.N., 192s. 6d. per cwt.; No. 1, 207s. 6d.; F.O., 225s. to 275s.

SQUILL.—New crop being sold on the spot at 140s. per cwt.; shipment, 135s. nominal.

STRAMONIUM.—Continental LEAVES 85s. per cwt. spot.

STYRAX.—Spot, 21s. per lb.; shipment, 20s. 6d., c.i.f.

TONQUIN BEANS.—Para spot, 5s. 4d. per lb.; shipment, 4s. 10½d., c.i.f.; Trinidad, 7s. 6d., spot.

TRAGACANTH.—No. 1 ribbon about £195 per cwt. No. 2, £180, spot.

TURMERIC. — Madras finger spot, 150s. per cwt.; shipment, 137s. 6d., per cwt. quoted.

VALERIAN ROOT. — Spot: East European, 175s. per cwt.; Indian, 175s. Shipment: Continental, 172s. 6d. to 205s. 6d. c.i.f.

VANILLIN.—Rates (per lb.) are now:—5-cwt. lots, 21s. 6d.; 1-cwt., 21s. 9d.: 56-lb., 22s.; small quantities, 22s. 6d.

WAXES. — (Per cwt.): BEES'.—Dar-es-Salaam, spot, 440s.; shipment, 415s., c.i.f. Abyssinian, spot, 390s., in bond; shipment, 385s., c.i.f. CANDELLILLA, spot, 465s.; forward, 460s. landed. CARNAUBA, fatty grey, spot, 295s.; shipment, 280s., c.i.f.; prime yellow, spot, 750s.; shipment, 680s., c.i.f.

WITCH HAZEL LEAVES.—Spot quotations are 2s. 7d. per lb.

Essential and Expressed Oils

ALMOND. — Sweet, English expressed, 9s. 6d. per lb.; foreign, 7s.

AMBER.—Rectified on the spot, 1s. 6d. per lb.

ANISE. — Chinese, 16s. per lb., spot; shipment, 15s. 6d., c.i.f.

BAY. — West Indian about 25s. per lb. on the spot.

BERGAMOT. — Case lots on spot from 88s. 6d. per lb. as to ester content.

BOIS DE ROSE.—Brazilian, 23s. per lb. on the spot: prompt shipment, 22s. 3d., c.i.f.

CALAMUS. — Spot, about 56s. per lb.; shipment, 38s. per lb., c.i.f.

CAMPOR, WHITE. — Chinese, 2s. 7d. duty paid, per lb.; shipment, 1s. 9d. c.i.f.

CANANGA.—Spot, 25s. per lb.

CARAWAY.—Imported oil, 34s. per lb.; English, 60s.

CARDAMOM.—Indian from 260s. to 275s. per lb., spot.

CASTOR.—Home produced B.P. oil, spot, £134 per ton naked ex mill (2-ton lots).

CEDARWOOD. — Rectified 6s. per lb. on the spot.

CELERY SEED. — Quotations are from 116s. per lb.

CINNAMON.—Best English-distilled, 720s. per lb.; other B.P. oils from 22s. to 120s. per lb. Ceylon leaf, 13s.; Seychelles from 7s. 6d., spot.

CITRONELLA. — Ceylon spot, 9s. 4½d.; shipment, 9s. per lb., c.i.f. Formosan, 8s. 3d., in bond; October–November shipment, 7s. 6d., c.i.f. Chinese, October–November shipment, 7s. 5d., c.i.f.

CLOVE.—Madagascar leaf spot, 7s. 1½d. per lb., duty paid; shipment, 6s. 4d., c.i.f. RECTIFIED 87–88 per cent., 12s. Distilled bud-oil, ENGLISH B.P., 26s. per lb. for 1-cwt. lots.

CORIANDER.—Russian oil, 40s. 6d. per lb., spot.

CUBEB.—Spot supplies of imported are 85s. per lb.

CUMIN.—English distilled oil, 130s. per lb.; imported, 90s.

DILL.—Imported, 31s. per lb., spot.

EUCALYPTUS.—B.P. 5s. 9d. and 6s. 3d. per lb. on spot for 70–75 and 80–85 respectively.

FENNEL.—Spanish sweet, spot, 10s. per lb.

GERANIUM.—Bourbon, 90s. to 100s. per lb. on the spot.

JUNIPER. — B.P.C. 1949 oil is from 13s. 6d. per lb. JUNIPER WOOD, from 5s.

LAVANDIN.—From 14s. 6d. to 15s. per lb. as to quality.

LAVENDER. — French spot, 30s. to 40s. per lb. as to quality.

LAVENDER SPIKE. — Firm. Spanish, 12s. 6d. per lb. for original drums.

LEMON.—Spot Sicilian from 40s. to 50s. per lb.

LEMONGRASS. — Spot, 11s. 1½d. per lb.; shipment, 11s., c.i.f.

LIME.—West Indian distilled 48s. per lb. on the spot.

NUTMEG.—West Indian B.P. oil is about 75s. per lb. English distilled, 100s.

PALMAROSA.—Shipment, 62s. 6d. per lb., c.i.f.; spot 70s.

PATCHOULI. — Penang is 21s., duty paid and 19s., c.i.f., per lb.

PENNYROYAL. — Spot, 12s. per lb., duty paid.

UNITED STATES REPORT

NEW YORK, OCTOBER 8: PHTHALIC ANHYDRIDE was raised three cents to 11½ cents a lb. A two-cent advance pushed U.S.P. grade GLYCERIN to 20½ cents and the synthetic to 20½ cents a lb. ANHYDROUS AMMONIA was increased to make the fertiliser grade \$92 a ton (up \$8). RESORCINOL prices were cut 42 cents to make the U.S.P. crystalline grade \$2.08. LAVENDER OIL rose 55 cents to \$2.25 a lb. while LAVANDIN advanced 15 cents to \$2.40.

COMING EVENTS

Items for inclusion under this heading should be sent in time to reach the Editor not later than first post on Wednesday of the week of insertion.

Sunday, October 13

NATIONAL PHARMACEUTICAL UNION, Three Tuns hotel, Durham City, at 12.15 p.m. Area meeting of N.P.U. members in business in Cumberland, Durham, Northumberland, Westmorland and the North Riding of Yorkshire.

Monday, October 14

LIVERPOOL CHEMISTS' ASSOCIATION, Adelphi hotel, Liverpool, at 7.45 p.m. National Pharmaceutical Union meeting.

LONDON NURSING EXHIBITION, Seymour Hall, Seymour Place, London, W.1. Until October 18.

LONDON SECTION, SOCIETY OF CHEMICAL INDUSTRY, 14 Belgrave Square, London, S.W.1, at 6 p.m. Dr. J. M. Corkill (Proctor & Gamble, Ltd.) on "The Structure of Thin Detergent Films."

NOTTINGHAM BRANCH, PHARMACEUTICAL SOCIETY, Medico-chirurgical Society's house, 64 St. James's Street, Nottingham, at 7.30 p.m. Special meeting to discuss proposed increase in personal retention fee.

ROMFORD BRANCH, PHARMACEUTICAL SOCIETY, Unicorn hotel, Gidea Park, Essex, at 7.45

p.m. Dr. R. Forgan (May & Baker, Ltd.) on "Flagyl."

SOUTH-WEST LONDON CHEMISTS' ASSOCIATION, Lambeth town hall, London, S.W.2, at 8 p.m. "The British National Formulary and You." Speakers: Dr. K. R. Capper (director, Department of Pharmaceutical Sciences), Mr. A. D. Thornton-Jones (secretary, B.N.F. revision committee), Mr. G. Smith (Department of Pharmaceutical Sciences) and Mr. J. W. Hadgraft (chief pharmacist, Royal Free group hospitals).

STOCKPORT BRANCH, PHARMACEUTICAL SOCIETY, West Park hospital, Macclesfield, at 8 p.m. Mr. C. C. B. Stevens on "A Recent Visit to Russia" (illustrated).

Tuesday, October 15

CORROSION AND METAL FINISHING EXHIBITION, Queens hall, Leeds. Until October 18.

DUDLEY AND STOURBRIDGE BRANCH, PHARMACEUTICAL SOCIETY, Stourbridge Institute, Market Street, Stourbridge, at 8 p.m. Mr. F. G. Stock (research chemist, Birmingham Analytical laboratories) on "The Work of the Birmingham Analytical Laboratories, with Special Reference to the Drug Testing Scheme."

EAST METROPOLITAN BRANCH, PHARMACEUTICAL SOCIETY AND WEST HAM ASSOCIATION OF PHARMACISTS, Swan hotel, Stratford Broadway, London, E.15, at 8 p.m. Mr. H. Steinman (treas-

urer, Pharmaceutical Society) on "Retention Fees and the Finances of the Pharmaceutical Society."

FIFE BRANCH, PHARMACEUTICAL SOCIETY, Anthony's hotel, Kirkcaldy, at 7.30 p.m. Professor A. E. Ritchie on "The Pharmacology of the Human Brain."

HERTFORD BRANCH, PHARMACEUTICAL SOCIETY, Essex Skipper hotel, The Stow, Harlow, Essex, at 8 p.m. Mr. W. M. Darling (a member of Council) on "Topics of Today and Tomorrow."

MANCHESTER BRANCH, GUILD OF PUBLIC PHARMACISTS, Engineers' club, 17 Alberts Square, Manchester, 2, at 8 p.m. Miss A. Lothian (librarian, Pharmaceutical Society) on "A description of the Pharmaceutical Society's House, including the Library and Historical Collection."

READING BRANCH, PHARMACEUTICAL SOCIETY, St. George's hall, St. George's Road, Reading, at 8 p.m. Mr. H. W. Tomski on "The Economics of Pharmacy with Special Reference to N.H.S. Dispensing."

WELLCOME TRUST historical medical library, The Wellcome Building, Euston Road, London, N.W.1, at 1 p.m. Dr. Edwin Clarke, on "The History of Medicine: Hippocrates as a Clinician."

WEST HERTFORDSHIRE BRANCH, PHARMACEUTICAL SOCIETY, Three Horseshoes hotel, Garston, Herts, at 7.45 p.m. Consideration of branch resolutions.

WEST KENT BRANCH, PHARMACEUTICAL SOCIETY, New Hackwood hotel, Widmore Road, Bromley, Kent, at 8 p.m. Branch representatives' reports on the British Pharmaceutical Conference, Mr. A. K. Ross on "The History of British Pottery," illustrated by the film "The Making of Wedgwood."

PRINT AND PUBLICITY

PRESS ADVERTISING

LEONAL, LTD., 66 Fenchurch Street, London, E.C.3: Diet-pack diabetic fruits. In *Balance* and health magazines.

ELLEN & HANBURY, LTD., Bethnal Green, London, E.2: Haliborange tablets. In national Press.

CONTINENTAL COSMETICS, LTD., 88 Fonthill Road, London, N.4: Jordan tooth-brushes. In mass-circulation women's magazines.

ENGLISH GRAINS CO., LTD., Granary House, Burton-on-Trent: Yestamin brewers' yeast. In *London Evening News*, *Radio Times*, and provincial evening newspapers.

GERHARDT-PENICK, LTD., Thornton Laboratories, Purley Way, Croydon, Surrey: Dethmor rodenticide. In national Press.

GOLDEN, LTD., Berkeley Square, London, W.1: Color-match. In *Woman*, *Woman's Journal*, *Woman's Realm*, *Modern Woman*, *Everywoman*, *Woman's Own*, *Woman and Beauty*, *Sunday Express*, *Daily Mirror* and *Sunday Mirror*. L'Oreal bleach. In *Woman*, *Woman's Own*, *Woman's Mirror* and *Honey*. Color-glo. in women's magazines. Elnett hairspray. In *Woman*, *Woman's Own*, *Flair*, *Honey*, *She*, *Vanity Fair*, *Modern Woman* and *Woman and Beauty*.

COMMERCIAL TELEVISION

Figures in these columns represent number of appearances of the "spot" during the week.

October 20-26	London	Midland	North	Scotland	Wales	South	N.E.	Anglia	Ulster	Westward	Border	Grampian	Eireann	Channel Is.	W.&N.Wales
nadin	4	4	5	2	2	3	2	1	2	1	1	—	—	—	—
ndrews liver salt	3	1	2	—	3	2	3	3	2	3	4	—	—	—	—
skit powders and tablets	—	—	—	14	—	—	—	—	—	—	7	—	—	—	—
eecham powders	5	5	5	4	5	5	5	4	5	4	5	2	—	5	—
sodol	—	—	—	—	—	—	—	—	5	—	—	—	—	—	—
uticura products	—	1	2	2	—	—	—	—	2	—	—	—	—	—	—
entu-creme	1	1	—	—	1	—	2	—	2	2	1	1	—	1	—
erma Fresh hand-lotion	1	1	1	1	1	1	—	1	—	1	—	—	—	—	—
ethmor warfarin	—	1	1	—	—	1	1	1	1	—	1	—	1	—	—
innefords magnesia	—	1	2	—	1	1	1	1	—	—	—	—	—	—	—
r. Wernet's powder	—	—	—	—	—	—	—	1	—	—	—	—	—	—	—
uthymol tooth-paste	1	1	1	—	—	—	—	—	—	—	—	—	—	—	—
ador	3	3	3	3	3	3	3	3	3	3	3	3	—	—	3
et Set hair-spray	—	1	—	—	—	—	—	—	—	—	—	—	—	—	—
illette razor blades	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
orlicks	4	4	3	2	2	3	3	2	2	2	2	—	4	4	2
pperial Leather soap	—	1	2	—	1	—	—	—	—	1	—	—	—	—	—
cenex tissues	3	3	3	3	3	4	3	3	2	4	3	3	—	—	—
e Rouge Baiser lipstick	1	—	—	—	—	—	—	—	—	—	—	—	—	—	—
eguard disinfectant	2	3	3	3	4	3	3	2	—	—	—	—	—	—	—
oxene shampoo	2	1	3	2	2	2	—	3	2	2	3	3	2	1	—
hair cream	—	1	—	—	—	—	—	—	—	—	—	—	—	—	—
acleans tooth-paste	1	3	2	1	—	—	2	3	—	—	3	—	—	—	—
ilk of Magnesia	1	4	2	5	2	3	3	5	3	3	3	1	—	—	—
oorland tablets	—	2	2	—	1	2	2	2	2	2	—	—	—	—	—
netrol inhalant	—	1	1	—	1	—	2	2	—	—	—	—	—	—	—
nylosan	—	3	1	—	—	—	—	—	—	—	—	—	—	—	—
ocol capsules	3	3	3	4	4	3	3	4	4	4	3	4	—	4	7
instead pastilles	1	2	—	1	1	1	1	1	1	—	2	—	—	—	—
lters	1	1	2	2	2	2	3	2	2	2	2	—	—	—	—
elvet toilet tissues	4	—	—	—	—	4	—	—	—	—	—	—	—	—	—
OS shampoo	3	2	1	1	1	1	1	—	—	1	—	—	—	—	—
right's coal tar soap	3	4	2	—	—	—	—	—	—	—	—	—	—	—	—

Thursday, October 17

BRITISH MEDICAL ASSOCIATION, Stoke-on-Trent. Annual clinical meeting. Until October 20.

DUNDEE AND EASTERN SCOTTISH BRANCH, PHARMACEUTICAL SOCIETY, Kidd's restaurant, Dundee, at 7.30 p.m. Branch representatives' reports. Mr. J. W. Scott on "The 'S.P.F.'" Film: "The Man in the Doorway."

PORTSMOUTH BRANCH, PHARMACEUTICAL SOCIETY, Guildhall, Portsmouth, at 8 p.m. Sir Hugh N. Linstead (a secretary of the Pharmaceutical Society) on "Safety of Drugs" (public meeting).

ROMFORD BRANCH, PHARMACEUTICAL SOCIETY. Visit to the Mermaid theatre, London, E.C.4: "Schweyk in the Second World War."

UNIVERSITY OF LONDON, Beveridge hall, Senate House, London, W.C.1, at 5.30 p.m. Professor Sir Charles Dodds on "Stillbœstrol and after."

WELLCOME TRUST, historical medical library, Wellcome Building, Euston Road, London, N.W.1, at 1 p.m. Dr. Edwin Clarke on "The History of Medicine: Galen and the Experimental Method."

Friday, October 18

BIRKENHEAD AND WIRRAL PHARMACISTS' ASSOCIATION AND WALLASEY PHARMACISTS' ASSOCIATION, Pensby hotel, Wirral, Ches, at 8 p.m. Address on beekeeping.

INTERNATIONAL BABIES' AND CHILDREN'S FAIR, Cologne. Until October 20.

UNIVERSITY OF LONDON, Royal Free Hospital school of medicine, Hunter Street, London, W.C.1, at 5.30 p.m. Professor P. K. Anokhin on "Neurophysiological bases of the therapeutic action of anaesthetic and psychotropic drugs."

TRADE MARKS

APPLICATIONS ADVERTISED BEFORE REGISTRATION

From the "Trade Marks Journal," September 25
For vermin destroying preparations (5)

ARREXE, 845,596, by Cela Landwirtschaftliche Chemikalien, G.m.b.H., Ingelheim-on-Rhine, Germany.

For infants' and invalids' foods and additives for use therewith to form gels as an aid in the prevention of vomiting (5)

GELCAR, 846,451, by Trufood, Ltd., London, S.E.1.

For medical and pharmaceutical preparations and substances (5)

FEMULES, B846,517, by E. C. de Witt & Co., Ltd., Croydon, Surrey.

For stimulants, being pharmaceutical preparations, all containing caffeine (5)

CAF-REX, 846,666, by Vantorex, Ltd., Loughborough, Leics.

For pharmaceutical products (5)

FENOSTIL, 847,717, by Zyma, S.A., Nyon, Switzerland.

For pharmaceutical preparations and substances, all containing honey (5)

LIQUEL, 848,112, by Sanitas Co., Ltd., London, S.W.9.

For pharmaceutical preparations and substances for human and veterinary use (5)

ZYMETS, 848,922, by Parkc, Davis & Co., Detroit, Michigan, U.S.A., and Hounslow, Middlesex.

For insect repelling and insect destroying preparations (5)

VASECT, 850,353, by M. A. G. Pharmaceuticals, Ltd., London, N.W.2.

For preparations of vitamins for pharmaceutical purposes (5)

ADECEGRAN, 850,388, by E. R. Squibb & Sons, Ltd., London, W.1.

For pharmaceutical preparations and substances in tablet form (5)

PERSONOIDS, 850,393, by Personex Antiseptics, Ltd., Bradford, Yorks.

For pharmaceutical preparations and substances for human and veterinary use; sanitary substances and disinfectants (5)

FIBROCOL, 851,513, by Imperial Chemical Industries, Ltd., London, S.W.1.

For supplementary lenses, lens hoods, filters and holders therefor and flashgun brackets, all being photographic apparatus; and parts and fittings (9)

Device with letters BDB, B847,241, by B.D.B. Engineers (Luton), Ltd., Beds.

For photographic and cinematographic projection apparatus and parts and fittings (9)

MICROJECTOR, 851,724, by Wedding Photo Co. (London), Ltd., London, N.W.3.

For battery operated vibratory apparatus for massage and parts and fittings (10)

HALEX CARESS, 847,418, by British Xylonite Co., Ltd., London, E.4.

For toilet paper (non-medicated) (16)

SAN, B842,174, by Santor Paper, Ltd., London, N.W.1.

For natural sponges and shaving brushes; emery boards and orange sticks, all being manicuring implements (21)

MARINA, B843,291, by Macdonald & Son, Ltd., Ashton-under-Lyne, Lancs.

For foodstuffs for animals (31)

QUINTET, 848,917, by Walshs, Ltd., Riston, Blackburn, Lancs. C.C.F.F., C.D.F.F., B848,946-47, by Basingstoke Foods, Ltd., Basingstoke, Hants, PELSIVIT, 849,683, by Handelsmaatschappij Trouw & Co., N.V., Amsterdam, Holland.

From the "Trade Marks Journal," October 2

For fertilisers for sale in England and Wales (1) and food for domestic animals and for poultry for sale in England, Scotland and Wales (31)

M.C.P. Brand, B838,025, B838,027, by Midland Cattle Products, Ltd., Birmingham, 5.

For films, paper and plates, all being sensitised articles for use in photography (1)

ROTARGO, 843,279, by Gevaert Photo-Producten, N.V., Mortsel, Belgium.

For films, papers and plates, all being sensitised articles for use in photography; and chemical products for use in photography (1)

GEVAGLOSS, GEVAPRINT, 849,985-86, by Gevaert Photo-Producten, N.V., Mortsel, Belgium.

For all goods (1)

LEZIROL, 850,406, by C. H. Boehringer Sohn, Ingelheim-on-Rhine, Germany.

For chemical products (1)

TORDON, 850,927, by Dow Chemical Co., Midland, Michigan, U.S.A.

For non-medicated humectant emollient preparations in cream form for the skin (3)

BEAUTY MAGIC, B837,849, by Yardley & Co., Ltd., London, E.15.

For soaps, perfumes, non-medicated toilet preparations, cosmetics, and detergents (3)

MELOS, B839,010, by Feinscifenwerke Walter Rau & Co., Stuttgart-Moehringen, Germany.

For all goods (3)

MARACHELLE, 848,539, by A. J. Siris Products, Ltd., Lancaster, co. Durham, FILTRASOL, 848,973, by Colgate-Palmolive Co., New York, U.S.A. ELEXIN, 849,011, by D.D.D. Co., Ltd., Watford, Herts.

PATENTS

COMPLETE SPECIFICATIONS ACCEPTED

From the "Official Journal (Patents),"

September 25

Method for manufacturing xanthosine by fermentation, Kyowa Hakko Kogyo Co., Ltd. 941,086. Cyanoethylation process, J. R. Geigy, A.G. 941,109.

6-aminomethyl steroids, The British Drug Houses, Ltd. 941,121.

3-enol ethers of 6-methyl-3-oxo- Δ^4 -steroids, The British Drug Houses, Ltd. 941,122.

Preparation of chlorofluorohydrocarbons, Imperial Chemical Industries, Ltd. 941,144.

Monomeric dicarboxylic acids containing amide linkages, Monsanto Chemical Co. 941,156.

Production of phthalic anhydride by catalytic oxidation and a catalyst therefore, Badische Anilin- & Soda-Fabrik, A.G. 941,293.

Organo-metallic carbonyl complexes, M. C. Whiting, 941,061.

18- and 19-oxygenated steroids and a process for their manufacture, CIBA, Ltd. 941,140.

Insolubilization of phosphoproteins with dialdehyde polysaccharides, Miles Laboratories, Inc. 941,101.

Electrophotographic material, Kalle, A.G. 940,873.

Photographic reproduction, Kalle, A.G. 940,874.

Electrophotographic materials, Kalle, A.G. 940,878.

Film guide means in roll film photographic cameras, Franke & Heidecke Fabrik Photogr. Prazisions-Apparate, 940,796.

Reflex photographic cameras, Franke & Heidecke Fabrik Photogr. Prazisions-Apparate, 940,797.

Photographic printing machines, Kodak, Ltd. (Eastman Kodak Co.), 940,894.

Photographic apparatus, International Polaroid Corporation, 941,270.

Apparatus for splicing and cutting kinematographic films, G. H. Lapersonne, 940,902.

British patent specifications relating to the above will be obtainable (price 4s. 6d. each) from the Patent Office, 23 Southampton Buildings, Chancery Lane, London, W.C.2, from November 6.

From the "Official Journal (Patents)," October 2

Dry vitamin-containing preparations and method for the production thereof, Lovens Kemiske Fabrik Ved, A. Kongsted. 941,359.

Injectable pharmaceutical preparations comprising 6a-fluoroprednisolone and/or its 21-acetate, Upjohn Co. 941,371.

Buccal or sublingual tablet containing carboxylase enzyme for controlling inflammation, Rystan Co. 941,664.

Pharmaceutical compositions comprising a camphor derivative, Roussel-Uclaf, 941,688.

Antiperspirant compositions comprising organo-aluminium compounds, International Latex Corporation, 941,692.

Stable solutions of narcotically-active phenoxy-acetic acid amides, Farbenfabriken Bayer, A.G. 941,694.

Diuretic compositions, Smith Kline & French Laboratories, 941,812.

Antibiotics, Chas. Pfizer & Co., Inc. 941,899.

1-(acylaminoaryl)-3,3-disubstituted triazenes, American Cyanamid Co. 941,489.

Fluoracetic acid derivatives, pesticidal preparations containing them and a process for their manufacture, Farbwerke Hoechst, A.G. 941,587.

Fungicides, Imperial Chemical Industries, Ltd. 941,616.

Thiophosphoric and thiophosphoric and thiophosphinic acid esters, Farbenfabriken Bayer, A.G. 941,631.

Dithiophosphoric acid esters, Farbenfabriken Bayer, A.G. 941,636.

Compounds having herbicidal and fungicidal properties and herbicidal and fungicidal compositions containing the said compounds, Fabrick Van Chemische Producten Vondelingenplaat, N.V. 941,709.

Dithiophosphoric acid esters, process for their preparation and compositions containing them, Soc. Azionaria Romagnola Industrie Agricola Farmaceutiche, S.p.A. 941,810.

Hypodermic injection and withdrawal apparatus, F. Wantoch, 941,370.

Surgical dressing, Johnson & Johnson, 941,591.

Medical testing devices, H. G. East, 941,685.

Griseofulvic acid, Glaxo Group, Ltd. 941,360.

Antibiotically active reaction products, American Cyanamid Co. 941,744.

Pentafluorosulphur-substituted aldehydes, Imperial Chemical Industries, Ltd. 941,392.

Pentafluorosulphur-substituted carboxylic acids, Imperial Chemical Industries, Ltd. 941,393.

Extraction of pyrethrum, East African Extract Corporation, Ltd. 941,395.

Organophosphine oxides and process for their preparation, American Cyanamid Co. 941,495.

Homocysteic acid, Ajinomoto, K.K. 941,498.

Sulphonated stilbene derivatives having optical brightening power, Farbenfabrik Wolfen Veb. 941,554.

Benzamides, Abbott Laboratories, 941,560.

α -halogenated amines and process of preparing them, Farbwerke Hoechst, A.G. 941,563.

Substituted 3,3,6-trimethyl heptanes and the preparation of dihydrochrysanthenic acid compounds therefrom, Rhone-Poulenc, S.A. 941,564.

Hydrolysis of aluminium alkoxides, Continental Oil Co. 941,567.

Thiazines and process for their manufacture, CIBA, Ltd. 941,632.

Pyrimidines and process for preparing same, CIBA, Ltd. 941,637.

Pyrimadines and processes for preparing same, CIBA, Ltd. 941,638.

British patent specifications relating to the above will be obtainable (price 4s. 6d. each) from the Patent Office, 23 Southampton Buildings, Chancery Lane, London, W.C.2, from November 13.

CONTEMPORARY THEMES

Subjects of contributions in current medical and technical periodicals.

EMULSIONS, The mechanical properties of, *Aust. J. Pharm.*, July 30.

On biological assay and its difficulties, *Eastern Pharm.*, August.

THE PREPURN PREGNANCY TEST, Evaluation of, *Lancet*, October 5.

ANTIBIOTICS, Antidiarrheal effect of, *Lancet*, October 5.

DRUG RESPONSE, Stress modification of, *Science*, September 20.

TREMORINE: its effect on amines of the central nervous system, *Science*, September 20.

IMIPRAMINE poisoning in childhood, *Brit. med. J.*, October 5.

PETHIDINE poisoning, *Brit. med. J.*, October 5.

DDT and Dieldrin in rivers: a report of the national water quality network, *Science*, September 6.

BRADYKININ: vascular relaxant, cardiac stimulant, *Science*, September 6.

VIRUSES, *S. Afr. pharm. J.*, August.

METHYLDOPA and HYDROCHLOROTHIAZIDE in hypertension, *J. Amer. med. Ass.*, September 14.

ACUTE BARBITURATE INTOXICATION, *J. Amer. med. Ass.*, September 21.

A DIRECT MICROBIOLOGICAL ASSAY for urine phenylalanine in phenylketonuric screening, *Nature*, October 5.

PROTECTIVE EFFECT of killed trypanosome vaccines with incorporated adjuvants, *Nature*, October 5.

CYCLOPHOSPHAMIDE, Prolongation of homograft survival in mice with single doses of, *Nature*, October 5.

VARIATION OF INTERFERON YIELD with multiplicity of infection, *Nature*, October 5.

METHYRIDINE, Mass treatment of capillaria- and ascaridia-infected poultry with, *Vet. Rec.*, October 5.

Greatest ever shaver promotion!

The Superspeed-Swagger pack!!



Free bottle of superb NEW Swagger pre-shave with Schick Superspeed

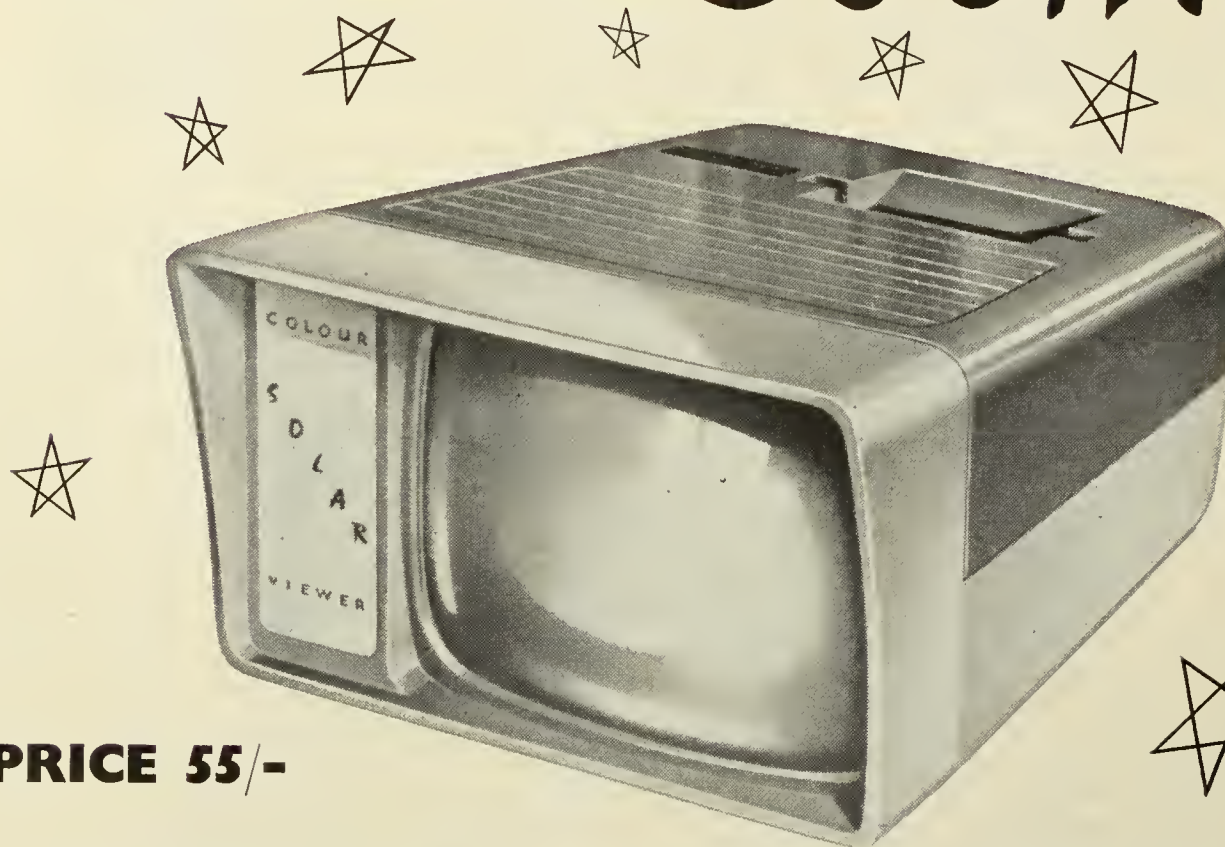
Superspeed gives the ideal shave The only shaver with a stainless steel shaving head, Superspeed starts sharper, stays sharper, gives the perfect shave. And now Superspeed comes in an eye-catching gift wrapper for Christmas.

Superspeed gives the ideal pre-shave—free! Introducing Swagger pre-shave, new from America. A superb pre-shave that sets up the beard perfectly for shaving. Normal retail price will be 10/6 per bottle. Free till 30th November, 1963, in this special Superspeed pack.

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**THIS PROMOTION IS COMPLETELY NEW FOR THE SHAVER MARKET
SO STOCK AND DISPLAY THE SUPERSPEED-SWAGGER PACK NOW!**

The all-star viewer **SOLAR**



PRICE 55/-

BIG EXTRA BRIGHT PICTURE . . . from 3.5 lamp and 3 batteries or from the mains with special transformer plug

- Takes all 2 × 2 and bantam slides.
- Two extra large optically worked glass lenses give comfortable big picture viewing.
- Upright pictures may be viewed without turning the viewer sideways.
- Uses a 3.5 lamp and three Ull batteries instead of the usual two.
- Very deep reflector gives completely even illumination over the entire picture, with no "hot-spots".
- Gentle pressure of slide in slot automatically lights lamp.
- Built-in stand for table viewing.



WORKS FROM BATTERIES OR MAINS

The Solar Viewer can be operated straight from the mains by means of a special Photax Mains Transformer. As the illustration shows, a plug is inserted into a socket on the underside of the viewer, thus disconnecting the battery circuit, and connecting the viewer to the mains through the transformer. *Three mains transformer attachments are available.*

MODEL 1

A combined/transformer standard 5 amp. 3-pin type plug. **27/6**

MODEL 2

(Shown above). An independent transformer without plug but with 18in. mains cable to which may be attached any type of plug. **27/6**

MODEL 3

Similar to model 1, a combined transformer and standard 13 amp. flat pin fused plug. **29/6**

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LYSOL B.P. LIQUOR CHLOROXYLENOLIS B.P.

* DETERGENTS AND LIQUID SOAPS

KLENZITE Liquid Detergent.

BUTLER'S Liquid Soap, non-perfumed and perfumed.

PRESENTATION

Our products are available in sachets, bottles, tins and drums. We also deliver by road tank wagon.

TECHNICAL SERVICE DEPARTMENT is situated at our Head Office, and welcomes your enquiries either directly or through our Branch addresses.

Established in 1843 as Distillers of Coal Tar, we were among the earliest producers of Carbolic Acid Disinfectants and Antiseptics. Today our range includes the more sophisticated preparations based upon Chlorinated Phenols, in addition to the traditional items.

We have been suppliers for many years to Her Majesty's Government Departments and to Hospitals and Municipal Authorities at home and overseas.

The Butler Range is comprehensive and includes Cresolox Black and Sterilite White Disinfectants conforming to BSS.2462/1961-all Groups.

Ministry of Agriculture Approval for use under the Diseases of Animals Acts has been secured for both Cresolox and Sterilite Disinfectants at stated dilution ratios up to 1-99.



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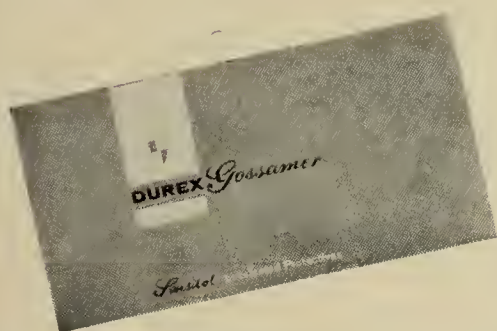
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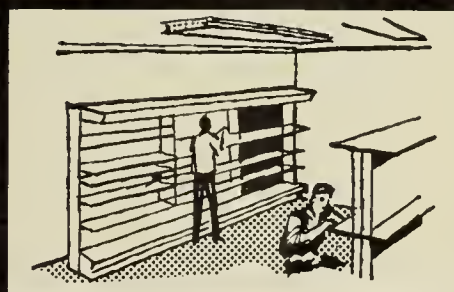
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oral vitamin B₁₂ peptide

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	1,000 mcg.

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Tube of 25	20 mcg.	2s. 8d.
Bottle of 100	20 mcg.	8s. 8d.
Tube of 25	100 mcg.	7s. 6d.
Bottle of 100	100 mcg.	21s. 10d.
" .. 500	100 mcg.	100s. 6d.
Foil pack of 4	1,000 mcg.	6s. 0d.
Bottle of 50	1,000 mcg.	55s. 0d.

'DISTIVIT' ELIXIR

		Each 3.5 ml. contains
		20 mcg. vitamin B ₁₂ peptide
Bottle of 4 fl. oz. (approx. 114 ml.)		3s. 0d.
" .. 40 fl. oz. (approx. 1,136 ml.)		24s. 0d.

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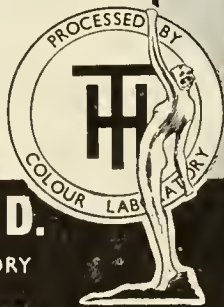
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♣ **PRICES** Top quality towels at medium prices.

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1	21/6	2/4
2	23/3	2/9
3	31/3	3/5

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Self-Service Display Tray holds
handy home packs of 25 Flex-
Straws. A BOON to invalids at
home. Children love them.

Both packs, in colours of red and blue, are designed for quick
self-service sales. Your customers can see the straws at a glance
in these attractive "window" packs. They occupy MINIMUM
SPACE—but make MAXIMUM SALES and MAXIMUM PROFITS.



TRY THE NEW TALL "SWEETHEARTS"—
10½"—for LONG DRINKS. Available in handy
quarter gross cartons.

For those who like their "SWEETHEARTS"
shorter . . . there are the 8½" straws in packs
of 100, as well as the 8½" "Mother Goose
Straws" in the colourful "window" pack
(kiddies love 'em).

These are just a few of the SWEETHEART
range, TALL, SHORT, STRAIGHT; also the
FLEX-STRAW—the ONLY straw DESIGNED
TO BEND AT ANY ANGLE. Can be used
safely in hot and cold beverages.

HYGIENIC DRINKING STRAWS CO. LTD.

College Road, Fishponds, Bristol

Phone: Bristol 653268 & 654205

Grams: Drinkrice, Fishponds, Bristol


The CHEMIST AND DRUGGIST
CLASSIFIED ADVERTISEMENTS

TELEPHONE: CENTRAL 6565

Address Box Number Replies to: **THE CHEMIST AND DRUGGIST, 28 ESSEX ST., STRAND, LONDON, W.C.2**

APPOINTMENTS — 24/- per 1/4" s.c. minimum and pro rata. AGENTS — AUCTION SALES — BUSINESSES FOR SALE and WANTED — CLEARANCES and WANTS — CONTRACTS — MISCELLANEOUS — PATENTS — PARTNERSHIPS — PREMISES — PUBLIC and LEGAL NOTICES — SITUATIONS VACANT. Run-on — 4/- per line (minimum 20/-). Semi-display — 24/- per 1/4" s.c. minimum. Displayed with border rule, larger type faces and blocks — 60/- per s.c.i. minimum. Reduced rates for one-third, one-half and full pages on application. SITUATIONS WANTED — 6/- per 18 words minimum, then 4d. per word. Use of Box No. — 2/-. Advertisements received by 4 p.m. Tuesday published same week.

PREMISES

SHOPS TO LET IN NEW DEVELOPMENTS

serving rapidly expanding residential communities

COXHEATH, MAIDSTONE

8 Shops 19 ft. x 40 ft. and Flats over

LINDFORD, HANTS

6 Shops 16 ft. x 36 ft. and Maisonettes

ASH VALE, HANTS

4 Lock-up shops 19 ft. x 48 ft.

TADLEY, HANTS

6 Shops 20 ft. x 48 ft. and Flats over

STYLES AND WHITLOCK,
44 St. James's Place, S.W.1.
Tel.: Hyde Park 0911.

C 5563

TO LET. Hook, Hants (main A30 road and serving new housing estate). Central corner position. Block of three new shops with stores, garages, loading bay, rear access, car parking, with fine self-contained three-bedroom flats. Rapidly developing area. Nearest present chemist four miles. 21-year leases. Commencing rental including shop, flat, storage and garage from £700 per annum exclusive. Thurlow Ltd., 112 Park Road, Camberley, Surrey. Telephone 4794. C 5567

BUSINESSES WANTED

£500,000
AVAILABLE

for the purchase of one or more

PHARMACEUTICAL
MANUFACTURING BUSINESSES

With Nationally Advertised
 Proprietary Lines

MANAGEMENT RETAINABLE

Minimum Nett Profits £20,000
per annum

Write in Confidence to:—

BUSINESS BROKERS LTD.

Sir Reginald Terrell

46 St. James's Place, LONDON, S.W.1
Telephone: HYD 1678

C 8453

BUSINESSES FOR DISPOSAL

SCOTLAND. Pharmacy for sale in industrial Fife coast resort, long established, 20 years in hands of present owner who now wishes to retire. For particulars apply to Messrs. J. Harley Hepburn and Co., Chartered Accountants, 135 High Street, Kirkcaldy. C 5559

THE PHARMACEUTICAL SOCIETY OF GREAT BRITAIN

SECRETARY AND REGISTRAR

The present holder of this post is due to retire in a few years' time and applications are invited for the post of **DEPUTY SECRETARY** with a view to the person appointed succeeding him subject to satisfactory service in the meantime.

Applicants must be registered pharmaceutical chemists and should have had administrative experience, preferably in a pharmaceutical connection. They should have an interest in and wide knowledge of affairs and well-developed qualities of initiative, judgment and decision. The salary will be negotiated but will be not less than £3,500 p.a.

The Council of the Society have set up a small committee under the chairmanship of the President to consider applications and recommend the person to be appointed. Applications, which should reach the Society not later than November 30 next, should be addressed to the President, The Pharmaceutical Society of Great Britain, 17 Bloomsbury Square, London, W.C.1, and the envelopes marked "Deputy Secretary."

C 8571

CHEMIST'S BUSINESS for sale, centre of W. Midland town. Trade nearly £15,000 p.a. Flat over (now let) and rooms let as doctor's surgery. Rent £250 p.a. Old-established, in a congested residential area. £2,500. S.a.v. £2,000. George Chapman & Co., F.V.I., 1a Worcester Street, Gloucester. Tel.: Glos. 24593. C 5558

APPOINTMENTS

HARTLEPOOLS HOSPITALS MANAGEMENT COMMITTEE

Pharmacist

Applications are invited for the above vacancy. Salary £725 to £970 per annum. Apply (with names of two referees) to the Group Secretary, at the General Hospital, West Hartlepool, as soon as possible. C 5562

HIGHLANDS GENERAL HOSPITAL, WINCHMORE HILL, LONDON, N.21

Senior Pharmacist

required. Whitley Council salary and conditions. Applications stating age, qualifications and experience with copies of two testimonials to Hospital Secretary. C 8583

MOORFIELDS EYE HOSPITAL

Dispensing Assistant

Applications are invited for the post of Dispensing Assistant, female. An interesting appointment in well-equipped, modern department. Whitley Council salary and conditions of service. Apply in writing to the Chief Pharmacist, Moorfields Eye Hospital, City Road, London, E.C.1. C 8567

KIDDERMINSTER & DISTRICT GENERAL HOSPITAL

Pharmacist

(full- or part-time) required at the above Hospital. Salary £725 rising to £970 per annum—pro rata for part-time appointment. Applications together with the names of two referees to Hospital Secretary. C 8590

LEWISHAM HOSPITAL, HIGH STREET, S.E.13

Senior Pharmacist

required. Accommodation available for female. Applications stating age, qualifications, experience, and names of two referees, to Group Secretary. C 646

LONDON JEWISH HOSPITAL, STEPNEY GREEN, E.1

Locum Pharmacist

required at the above hospital immediately. Modern department. Every third Saturday morning off. Salary £19 19s. per week. Applications to the Chief Pharmacist (Telephone: STE. 4251). C 5550

ORSETT HOSPITAL, Nr. GRAYS, ESSEX

Senior Pharmacist

required at the above hospital. Whitley Council conditions. The hospital is being rebuilt and will ultimately accommodate over 500 beds. A new Out-patients' Department has already been built and the next phase commences in a short while. The post will be an interesting one and in due course a complete new department will be available. Residential accommodation may be made available to a single applicant if required. Applications, giving full details of experience, together with names of two referees, to the Group Secretary, Thurrock Hospital, Grays, Essex. C 5565

SITUATIONS VACANT WHOLESALE

INTER - ALIA

PHARMACEUTICAL SERVICES LIMITED

TABLET COATERS

MACHINE OPERATORS

PROCESS WORKERS

In our programme of expansion, we are looking for experienced men who are not afraid of hard work—prepared to operate on shift work basis. Excellent opportunities exist for advancement in our modern factory situated in Norfolk.

Apply to: **WORKS DIRECTOR,**
INTER-ALIA PHARMACEUTICAL SERVICES LIMITED,
Industrial Estate,
London Road,
Thetford, Norfolk.

C 8588

Appointments—Continued**LONDON JEWISH HOSPITAL,
STEPNEY GREEN, E.1****Pharmacist**

required at the above hospital immediately. Modern Department offering good general experience. Every third Saturday morning off. Whitley Council salary scale. Applications in writing, giving details of age, qualifications and experience, together with the names of two referees, to the Chief Pharmacist. C 8549

**MOORFIELDS EYE HOSPITAL,
CITY ROAD, LONDON, E.C.1****Pharmacist**

Applications are invited for the above post at this hospital. This is a Category V Post-Graduate Teaching Hospital with a modern, well-equipped pharmacy. Whitley Council salary and conditions of service. Applications, stating age and qualifications, with names of two referees to the Chief Pharmacist. C 8566

**ST. ALBANS CITY HOSPITAL
(403 beds),
NORMANDY ROAD,
ST. ALBANS, HERTS****Senior Pharmacist**

Applications are invited for the above post at this general hospital within easy reach of Central London. Whitley Council salary and conditions of service. Applications stating age, qualifications and experience, together with the names of two referees, to the Chief Pharmacist.

Locum Pharmacist required immediately pending this appointment. C 8518

**WEST PARK HOSPITAL,
EPSOM, SURREY****Locum Pharmacist**

required. Five-day week. Salary £19 19s. Apply immediately to Chief Pharmacist, stating age and qualifications. C 8581

**ST. JOHN'S HOSPITAL,
ST. JOHN'S HILL, S.W.11****Locum Pharmacist**

Near transport facilities to central and west London. Apply Secretary, St. John's Hospital, St. John's Hill, S.W.11. Telephone VANDyke 1022. C 8583

**WEST PARK HOSPITAL,
EPSOM, SURREY****Senior Pharmacist**

required at this modern psychiatric hospital. Five-day week. Salary range £810—£1,060, plus £45 London Weighting. Small unfurnished flat with central heating available to rent, suitable for newly qualified person, or temporary accommodation may be available for a single person. Further information on request from Chief Pharmacist, phone Epsom 5234. Apply, naming two referees, to the Group Secretary, West Park Hospital. C 8582

**WEST SUFFOLK GENERAL
HOSPITAL,
BURY ST. EDMUNDS, SUFFOLK
(250 beds)****Pharmacist**

one of three, required in busy modern department. Salary £725 to £970 per annum. Post suitable for experienced or newly qualified officer. Applications with names and addresses of two referees to Hospital Secretary within ten days of this advertisement. C 8589

SITUATIONS VACANT**RETAIL (HOME)**

CHEMIST COUNTER ASSISTANTS required for London, E.C.1 and N.1. Highest salary paid in exchange for experience and loyalty. Apply in writing to Managing Director, Kendale Chemists, 51 Exmouth Market, E.C.1. C 5569

CAMBERWELL, S.E.5. Male dispensing assistant required, capable of ordering and controlling own stock. Good working conditions. D. Davis, Ltd., 272 Albany Road, London, S.E.5. C 5573

CHEMIST REQUIRED for new shop. Good prospects. York area. Box C 5570.

EXPERIENCED SALES GIRL required for congenial medium-sized pharmacy in East London. No dispensing. Good wages depending on hours negotiated. Details and availability for interview to Box C 5577.

WHOLESALE

ANALYTICAL TECHNICIAN. Young man, preferably experienced in drug and pharmaceutical assay required. Excellent conditions, modern laboratory. Apply in writing, giving fullest particulars of experience, salary, etc., to Managing Director, Biorex Labs., Ltd., 47/51 Exmouth Market, London, E.C.1. C 5541

**BURROUGHS WELLCOME & CO.**

invite applications from

PHARMACISTS

for posts in their Pharmaceutical Production and Packaging Departments at the Wellcome Chemical Works, Dartford. The posts afford a good opportunity for recently qualified Pharmacists wishing to enter industry. The salary paid will be in accordance with qualifications and experience.

Applications should be sent to The Personnel Manager, The Wellcome Chemical Works, Dartford, Kent.

C 8586

Situations Vacant—Continued

ASSEMBLER AND PACKER for drugs and medicinals for hospital orders. Some experience and knowledge of drugs and medicinals an advantage. Good salary and conditions. Apply Biorex Labs., Ltd., 47/51 Exmouth Market, London, E.C.1. TER. 5216. C 5568

MEDICAL REPRESENTATIVES

Opportunities exist for appointments to positions of Medical Representatives with an important Pharmaceutical Manufacturer, marketing the products of their own research, to G.P.'s, Hospitals, etc.

Appointments will be made in the territories of—Shropshire, Gloucestershire, Lancashire, Northamptonshire, Leicestershire, S.E. London, and Liverpool/Wirral.

The successful applicants will already have some experience of working on their own initiative, and without close supervision. Preference will be given to men with Medical or Pharmaceutical experience, but a suitable background showing the ability to make a sales approach at professional level would be acceptable.

Salary will be according to experience and qualifications, but will not be less than £1,000 per annum. Lunch allowance and Company Car provided and all out of pocket expense paid by the Company. A superannuation scheme, free life insurance and sick benefits are in operation.

All applications will be acknowledged and will be regarded as Strictly Confidential. Travelling expenses will be paid to applicants requested to attend for interview. Box C 5587.

M.P.S. REQUIRED immediately for work on the sales side in expanding company. Must be enthusiastic and ambitious, age not important. Permanent post. Contributory Pension Fund, Free Life Assurance. Three weeks' paid holiday. Staff Canteen. Salary according to qualifications, £1,200 p.a. minimum. Apply to Sales Director, John Bell, Hills & Lucas, Ltd., Worsley Bridge Road, London, S.E.26. C 8594

PROVINCIAL REPRESENTATIVES required, London and Southern Counties, for well known and nationally advertised cosmetic lines. Substantial commission basis and expenses suitable applicants with connection. Box C 5538.

REPRESENTATIVE WANTED by an old-established firm to sell on commission surgical trusses, spring and elastic, state ground covered. Replies in strict confidence to Box C 5561.

UNQUALIFIED MALE ASSISTANT required for manufacture of galenicals. Experience essential. McClure, Young & Co., Ltd, Elgar 5424. C 5574

SITUATIONS WANTED

DIRECTOR (pharmacist) of several pharmaceutical companies, about to retire, seeks post as consultant to supplement retirement income. 40 years' varied experience in almost every branch of the business, including formulation, buying, manufacturing, marketing and administration. Replies to Director, Box C 8591.

ENERGETIC, adaptable representative, age 37, of smart appearance, resident Sheffield, seeks appointment in medical representation. 8 years' experience confectionery trade. Willing to undergo training. Box C 5572.

SORRY cannot help my brown complexion, but I am willing, able and young. I have experience of all branches of retail pharmacy and academic qualifications. A humble degree in pharmacy of London University. I would like to do some evening and week-end work. Terms by arrangement. Please reply: S. K. Mallick, B.Sc., P.Pharm., M.P.S., 49 Macaulay Court, Macaulay Road, S.W.4. C 5564

SITUATIONS VACANT WHOLESALE**PHARMACIST**

Pharmax Limited have a vacancy for a Pharmacist for Development and Laboratory work at their new laboratories, Crayford. Candidates preferably should have some industrial experience in these branches of pharmacy.

This is a senior position offering excellent prospects in a rapidly expanding company.

A good salary, according to experience and qualifications, will be offered. Non-contributory pension scheme in operation, canteen, five-day week.

Address fully detailed application, in confidence, to:—

**Managing Director (P/C),
Pharmax Limited, Thames Road,
CRAYFORD, Dartford, Kent.**

C 5546

AGENTS

OPPORTUNITY to GO-AHEAD WHOLESALE/DISTRIBUTORS CHEMISTS

With regular cover of the following area—Greater London. Birmingham area. Yorkshire. The North East. Scotland. **SOLE AGENCIES GRANTED.** First-class Exclusive product. Takes up little space. Easy to sell to EVERY CHEMIST. National advertising support. Offered by a Firm of Repute to Firms of Repute. Box C 5575.

AGENTS

AGENT WANTED calling on chemists, departmental stores, opticians, for variety of lines. Established connection in Southern Counties and London. Box C 5560.

AGENTS WANTED for extra repeatable line already calling on retail chemists in (1) London area and Home Counties; (2) South Coast. Box C 8592.

AGENCIES

EXCELLENT connections in Middlesex and N.W. London, with chemists and hospitals. Box C 5571.

WANTED

CASH FOR CAMERAS!!! Best prices paid for German and Japanese apparatus that has become obsolete or is "sticking." Quantity unlimited. The Camera Co., 320 Vauxhall Bridge Road, S.W.1. VIC. 5438. C 627

WE WILL PURCHASE for cash a complete stock, a redundant line, including finished or partly finished goods, packing raw materials, etc. No quantity too large. Our representative will call anywhere. Write or telephone: Lawrence Edwards & Co., Ltd., 6/7 Wellington Close, Ledbury Road, London, W.11. Tel.: Park 3137-8. C 140

BUSINESS OPPORTUNITIES

A BARGAIN.—New Company Registrations £25 complete—all trades, also rapid Company Formulation Service. Get "Advantages of Trading as a Limited Company," 3/- post free. Business Economy (Dept. Y/10/AU), 156 Strand, London, W.C.2. TEM. 8377/2294, 19 Walker Street, Edinburgh, 3. CAL. 1167. C 622

MANLY MAN'S BELT. Nationally advertised "obtainable from chemists," 35/-. Full trade terms. Order by waist size from Manly Co., Manor House, Worcester Park, Surrey. DERwent 3877. C 635

MACHINERY FOR SALE

LANSING BAGNALL battery-operated Stillage Truck, 2-ton capacity, platform 32 in, long x 18 in, wide. Almost new condition. £385. Write Box C 8559.

FINANCE

RELEASE CAPITAL tied up in book debts by using our Sales Finance service, CML, 115 Gloucester Place, W.1. C 5477

FOR SALE

GEORGIAN pharmacy display bottles (120), two window carboys, £80. Lairds, 92 Park Road, Baker Street, N.W.1. AMB. 6507. C 5566

MISCELLANEOUS

COHAR FOR CARPETS offer 15%—20% saving, all leading makes, carriage free U.K. Huge saving on Venetian Blinds, Sewing Machines, Typewriters, Parquet Tiles, Furniture, Washing machines, Refrigerators, Lawn Mowers and Power Tools, Showrooms at London, Leicester, Sheffield, Bradford, Leeds, Hull, Middlesbrough, Manchester, Newcastle, Bristol, Hadleigh (S.), Liverpool, Cardiff, Swansea, Aberdeen, Edinburgh, Cambridge, Plymouth, Bournemouth, Brighton, Glasgow, Dundee, Birmingham, Preston, Blackpool and Belfast. Write:—Cohar Distributors 47 Oswald Street, Glasgow, C.1. Or phone: Glasgow CENTral 8325, Birmingham MIDland 8333, London CHAncery 2345, Manchester CENTral 2321. C 600

FASHION JEWELLERY. Jodez (Manchester) Ltd., 10 Shudehill, Manchester, 4. Leading again with the latest Xmas lines just arrived from abroad, exclusively our own imports. Exquisite Brooches, Chatelaines, Ear-rings, new style Necklets, Dress Rings, Diamant Hair Ornaments, Bangles, etc. Sample orders from £5 upwards. Immediate delivery. C 5554

CUMULATIVE LIST OF AMENDMENTS TO THE C.&D.

Quarterly Price List

SEPTEMBER

Actifed (208 BW) compound linctus 80 oz	63	4ea	—	—	ts7
Admune (436 Evans) disposable syringe .. 1	7	6ea	—	10	0
	10	60	0ea	—	—
Adrenaline (971 PSMB) solution .. 25 mls	20	0	—	2	6 ts7
Alberto Culver (1437 ACC) VO5 shampoo	51	6	12 10½	7	6
Aldis (884 NB) "505" projector	399	0	—	—	—
Aldomet (837 MSD) injection .. 5 mls	15	0ea	—	22	6
Alfocetyn (34 A&H) capsules 250 mgm .. 12	132	0	—	16	6 TS
	100	86	8ea	130	0 TS
	1000	835	8ea	1253	6 TS
ear drops 5% 15 mls	68	0	—	8	6 TS
10% 5 mls	52	0	—	6	6 TS
for eye drop dropper bottle	34	0	—	4	3 TS
powder, non sterile 5 gm	198	0	—	24	9 TS
	25 gm	80	10ea	121	3 TS
	100 gm	301	10ea	452	9 TS
suspension .. 60 mls	98	0	—	12	3 TS
Alfonal (29 Alfonal) diabetic fruits	16	6	—	1	10
Sorbitol sweetened .. 8 oz	13	6	—	1	6
unsweetened .. 8 oz	13	6	—	1	6
Allegron (378 Dista) liquid 10 mgm/5 mls	115 mls	54	0	13	6 7 10½ ts4B
	500 mls	178	0	44	6 25 11½ ts4B
tablets 10 mgm .. 25	34	0	8	6	4 11½ ts4B
	100	128	0	32	0 18 8 ts4B
	500	47	0ea	11	9ea 82 3 ts4B
25 mgm .. 25	70	0	17	6	10 2½ ts4B
	100	256	0	64	0 37 4 ts4B
	500	94	0ea	23	6ea 164 6 ts4B
Allenbury's (34 A&H) pastilles sugarless	120	0	30	0	17 6
Alphosyl (1178 Stafford) cream .. 60 gm	120	0	30	0	17 6
Alupent (154 B) (distributors 969 Pfizer) tablets 20 mgm .. 50	9	10ea	—	14	9
	250	44	8ea	—	67 0
Amadis (Pierre Cardin (366 Dendron)) Amadis (Pierre Cardin (1475 Concorde)) Amfix (818 M&B) J Pak .. 1 gall	40	0ea	—	60	0
S. type hardener 450 mls	56	0	—	7	0
.. 80 oz	—	—	—	—	—
Amplex (67 Ashe) deodorant roll-on ..	18	0	4	5	2 6
spray-on ..	18	0	4	5	2 6
Analgesic balm (179 BDH) jar	15	0	3	9	2 2
Angel Face (256 CPL) face powder ..	23	5	5	11	3 6
Ansolysen (971 PSMB) injection 0.5% 10 mls	48	0	—	6	0
Anthial (971 PSMB) lotion .. 4 oz	32	0	8	0	4 8
Anthisan (971 PSMB) ampoules 2.5% 2 mls 10	68	0	—	8	6 ts7
Anti-Kamnia (1178 Stafford) entire entry	—	—	—	—	—
Anti-Kamnia (1178 Stafford) new formula tablets ..	11	9	2 11½	1	7
(paracetamol)	28	7	7 1½	3	9½
original formula tablets	11	9	2 11½	1	7 ts4B
	28	7	7 1½	3	9½ ts4B
with codeine ..	11	9	2 11½	1	7 ts4B
Antolia (1476 AC) leaves .. 120	6	3½ea	8½ea	10	6
Antussin (1239 Tobal) double strength ..	40	6	—	4	6 †
	67	6	—	7	6 †

chewable capsules ..	36	0	—	4	0 †
children's ..	36	0	—	4	0 †
Aqua Mephyton (837 MSD) ampoules 0.5 mil .. 25	47	6ea	—	71	3
Aquatheron (835 M&J) bath liquid ..	102	4	25	7	13 6
Aristocrat (78 AS&Co) cream	—	—	—	—	—
Ascabiol (971 PSMB) emulsion .. 4 oz	26	0	—	3	3
Asilone (117 BPL) paediatric .. 50 gm	120	0	30	0	17 6
Atomol (34 A & H) nasal spray ..	28	0	—	3	6
Atrix (1164 SSL) hand care .. 404	12	0	3	0	1 9
	411	13	9	3	5 2 0
	408	20	7	5	2 3 0
	409	96	0	24	0 14 0

THIS WEEK'S CHANGES
AT END OF LIST

Atromid S (649 ICI) capsules .. 50	12	4ea	3	1ea	21 7
	250	56	6ea	14	1½ea 98 10½
	1,000	217	8ea	54	5ea 380 11
Aventyl (413 Lilly) liquid 10 mgm/5 mls	120 mls	56	0	14	0 8 2
	480 mls	14	0ea	3	6ea 24 6
Pulvules 10 mgm .. 100	10	8ea	2	8ea	18 8
	500	47	0ea	11	9ea 82 3
25 mgm .. 100	21	4ea	5	4ea	37 4
	500	94	0ea	23	6ea 164 6
Avomine (971 PSMB) tablets 25 mgm .. 10	20	0	—	2	6 ts7
Ayrtolax (78 AS&Co) tablets	—	—	—	—	—
Ayrtol (78 AS&Co) antiseptic cream large	13	0	3	3	2 0
tablets	—	—	—	—	—
chlorophyll .. 48	12	0	3	0	2 0
vapour rub .. tin	9	0	2	3	1 6
Band-Aid (672 Johnson) butterfly closure 100 s	—	—	—	—	—
Barluze (89 Barluze)	24	0*	3	2	3 0*
	*Includes 3d. for container.				
Bartex (477 AF&B) perfume spray, handbag	—	—	—	—	—
size .. No. 6	8	0ea	2	0ea	13 11
	No. 7	9	1ea	2	3½ea 15 11
Beauty on a Budget (1063 Rimmel) eye make-up remover pads	10	3	2	6	1 6
shampoos	—	—	—	—	—
lanolin cream (3) ..	10	3	2	6	1 6
medicated liquid (3)	10	3	2	6	1 6
Bellair (681 Kaputine) Bellair (1243 Topsy)	—	—	—	—	—
Bena-Fedrin (938 PD) spray .. 15 mls	28	0	—	3	6 †
	1 oz & 16 oz	—	—	—	—
Bencard (113 Bencard) inhalation testing solutions	—	—	—	—	—
allegens .. 25 mls	78	9ea	—	105	0
patch test ..	31	6	—	3	6
prick test instrument	90	0	—	10	0
skin test outfit 16 x 2 mls	—	—	—	—	—
skin test outfit 21 x 2 mls	64	6ea	—	86	0

the most versatile digitalis glycoside

LANOXIN^{brand} DIGOXIN

TABLETS • SOLUTION • INJECTION • PÆDIATRIC TABLETS & ELIXIR

BURROUGHS WELLCOME & CO. (The Wellcome Foundation Ltd.) LONDON

mascara compact ..	17	0ea	4	3ea	29	6
refill ..	8	8ea	2	2ea	15	6
powder film ..	14	0ea	3	6ea	24	6
pressed compact ..	10	0ea	2	6ea	17	6
refill ..	5	4ea	1	4ea	9	6
shadow-light creme ..	10	0ea	2	6ea	17	6
stick ..	10	0ea	2	6ea	17	6
youth blend over-glow ..	14	0ea	3	6ea	24	6
Insert Eucarbon (1484 PCPL)						
tablets ..	40	26	1	6	6	3 10
	100	50	0	12	6	7 3
Eutonyl (2 Abbott)						
Film tabs 25 mgm ..	100	52	10ea	13	2½ea	92 5½ts4B
10 mgm ..	100	26	0ea	6	6ea	45 6 ts4B
Euvitol (34 A&H)						
all packs ..						ts4B
Ever Ready (438 ER)						
razor blades						
Corrux premium edge						
(5) ..		19	2	4	10	2 9
		(60 blades)		(60 blades)		
Delete F99 (657 IL)						
Insert F99 (1485 Dlya)						
Faint Blush (60 Arden) ..						12 6
Delete Fath de Fath (Jacques Fath)						
(distributors 331 C of C) all entries						
Delete Femilan (37 Allied)						
Fields (462 Field)						
shave stick ..		5	8	1	5	9
Flawless (256 CPL)						
cream ..		32	9	8	2½	4 6
Florineige (1254 UCS)						
perfume						
Fetich animals 631,400		38	0	9	6	5 6
floral carded 631,800		33	0	8	3	4 11
flower 631,500		72	0	18	0	10 6
Forster's (561 HF)						
vaporising outfit ..		70	0			
Framomycin (324 Crookes)						
feed additive ..		1lb	31	0ea		46 6 TSVSO
		3lb	84	0ea		126 0 TSVSO
Fullers (1246 TP&T)						
celery pills ..	480	120	0	30	0	18 0
Furadantin (1153 SKF)						
suspension ..	4 fl oz	111	0			13 10½
	80 fl oz	167	7ea			
tablets 50 mgm ..	100	57	10ea			86 9
	1000	531	0ea			
	100	109	10ea			164 9
	1000	1008	3ea			
Gadeon Richter (499 Richter)						
hormone cream ..	1 oz	36	0	9	0	5 3
		64	0	16	0	9 4
Delete GH (234 Cartwright) entire entry						
Gillette (514 Gillette)						
razors						
adjustable Mark II ..		87	4	21	10	12 6
Aristocrat ..		21	10ea	5	5½ea	37 6
Goddard (522 Goddard)						
Long-Term silver polish						
3½ oz		45	0			5 0
7½ oz		85	6			9 6
1 qt.		81	10ea			42 6
Delete Green Water (Jacques Fath)						
(distributors 331 C of C) all entries						
Halex (560 Halex)						
Baron battery shaver		45	0ea	11	3ea	77 6
Haygen (113 Bencard)						
vials ..	4 x 10 mills	78	9ea			105 0
Hazol (34 A&H)						
nasal drops ..	15 mills	40	0			5 0
Hexa-mandolate (1166 Southon)						
(distributors 1479 Wallis)						
Hexocil (1310 WW)						
(distributors 776 Loveridge)						
Hibitane (649 ICI)						
lozenges ..	12					
lozenges ..	20	16	8	4	2	2 6 †
Hipsy (930 P&B)						
Hipsy (451 F&J)						
Histofax (208 BW)	17.5 gm	20	0	5	0	2 11
Horlicks (621 Horlicks)						
1 lb		21	7			2 3
1 lb		36	0			3 9
1 lb		62	5			6 6
3 lb		168	0			17 6
chocolate flavoured ..	6 oz	28	10			3 0
	12 oz	52	10			5 6
Hygroton-Reserpine (501 Geigy)						
tablets ..	20	10	0ea			15 0 ts4B
	100	38	9ea			58 1½ts4B
Iglodine (561 HF)						
antiseptic ..	½ gall	102	0	25	6	14 9
	1 gall	192	0	48	0	26 0
Innox (654 Innox)						
Living Peach						
body lotion ..		108	0	27	0	16 9
cleansing lotion ..		94	0	23	6	14 6
moisturising lotion ..		120	0	30	0	13 6
tonic, extra ..		94	0	23	6	14 6
regular ..		94	0	23	6	14 6
Insidon (501 Geigy)						
tablets 50 mgm ..	30	7	3ea	1	10ea	12 8½ts4B
	150	30	0ea	7	6ea	52 6 ts4B
	1000	186	3ea	46	7ea	325 11½ts4B
Iris Gris (Jacques Fath)						
(distributors 331 C of C) all entries						
Iso-Brovon (859 Moore)						
pressurised with adaptor						
refill ..						

pressurised complete ..	122	0	—	14	6 †
refill ..	96	0	—	8	0 †
adaptor ..	26	0	—	3	0
Ivarsal (452 FBA)					
lozenges 10 mgm ..	16	20	0	—	2 6
Delete Izal (890 NC & C)					
Insert Izal (1480 Izal)					
dustbin powder					
small	9	0	—	1	0
large	13	6	—	1	6
bag 112 lb	24	6ea	—	30	0
Delete Jacques Fath (331 C of C) all entries					
Jergens (471 FB)					
hand lotion ..	20	10	5	1	2 11
Johnsonplast (672 Johnson) zinc oxide plaster B.P.C.					
flesh colour					
1 yd ..	1 in	4	3	—	6
	1 in	5	3	—	7½
	1 in	8	6	—	1 0
3½ yd ..	1 in	13	6	—	1 7
	1 in	12	6	—	1 5½
5 yd ..	1 in	19	0	—	2 3
	2 in	33	3	—	3 10
	3 in	47	0	—	5 6
10 yd ..	1 in	20	8	—	2 4½
	1 in	32	0	—	3 9
	2 in	59	6	—	7 0
	3 in	83	4	—	9 9
Johnsons (672 Johnson)					
cotton buds ..		8	0	—	1 0
cream ..	tube	14	5	3	7 2 0
Delete napkins ..					
powder ..	large	27	8	6	11 3 9
soap ..		12	7	3	2 1 7
Delete back plaster ..					
wool balls (carton) ..		18	0	—	2 3
Delete chiropodists' felt N.H.S. medium					
small	12	0	—	1	6
12 yd	9	6	—	2	4½ 1 6
24 yd	14	6	—	3	7½ 2 6
Delete pocket first-aid outfit					
protective pants					
small	240	0	24	0	29 6
medium	260	0	26	0	31 9
large	280	0	28	0	34 9
suspensory bandage NHS	26	0	2	8	—
travel kit ..	44	0	—	5	6
Delete Jordan (327 WC)					
Insert Jordan (1372 CCL)					
Josephine Hart (1481 JHL)					
hair spray ..		9	0	2	3 1 6
aerosol ..	6 oz	20	6	5	1½ 3 6
	8 oz	30	0	7	6 4 6
	16 oz	31	6	7	10½ 6 6
refills ..	1 oz	38	6	9	7½ 7½
	(gross)				
	51	0	13	0	9
	(gross)				
	54	0	14	6	1 0
	(gross)				
	58	0	14	6	1 6
	(gross)				
twin pack ..		9	0	2	3 1 3
hand cream ..		9	0	2	3 1 3
hand lotion ..		9	0	2	3 1 3
shampoo oyster cream and					
medicated ..	6 oz	10	0	2	6 1 3
	16 oz	20	0	3	0 2 11
sachets	1 oz	18	0	4	6 6
	(gross)				
	30	0	7	6	1 0
	(gross)				
Katorin (147 Boots)					
oral solution ..	8 oz	4	6ea	—	6 9
	40 oz	20	0ea	—	30 0
Kest (697 Kest)					
tablets ..		7	0	1	9 1 0
		14	0	3	6 2 0
		35	0	8	9 5 0
Delete K ₂ R (890 NC & C)					
Insert K ₂ R (1480 Izal)					
Insert Karswood (895 NA&V)					
dog powders ..		8			1 0
		24			2 3
		16	2	4	0 2 3
		6	0ea	1	6ea 10 0
kennel pack ..					
Kleenex (202 KC)					
tissues all sizes and prices					
Delete tissues handy ..		9	0	—	1 0
Insert tissues handy ..		150	15	9½	1 9
regular ..		100	15	9½	1 9
economy ..		150	22	6½	2 6
for men ..		50	9	0	1 0
for men ..		100	24	9	2 9
pocket pack ..		2	8	—	4
Kodak (711 Kodak)					
Brownie Vecta camera		16	3ea	4	1ea 29 1
case		3	7ea	11ea	6 4
Delete Brownie 44B camera and case					
Delete Brownie movie 8 projector A15					
Brownie movie 8 projector					
A15 G ..		236	0ea	—	440 0
Lady Caroline (1254 UCS)					
perfume					
with atomiser	633,500	102	0	25	6 14 11
Remons 1½oz	633,200	126	0	31	6 18 6
Lady Manhattan (462 Field)					
perfume		89	0	22	3 13 0
presentation		16	6	4	1½ 2 3
soap ..					
L'Aimant (301 Coty)					
bath cubes ..	2073	29	6	7	2 4 6
soap bath ..	081	29	9	7	3 4 0
Lakaway (1351 WLU)					
shampoo ..	sachet	19	2	4	9½ 11
	(3 doz)			(3 doz)	

	Layla (1168 S&J)	Nutrosolvent ..	21	0	5	3	3	6		
			27	0	6	9	4	6		
	Ledermycin (746 Lederle)	tablets 150 mgm ..	16	18	6ea	—	27	9	TS	
		100	110	10ea	—	—	166	3	TS	
		500	534	10ea	—	—	802	3	TS	
		1000	1069	8ea	—	—	1604	6	TS	
	Light and Lovely (301 Coty)	tube ..	51	0	12	5	7	9		
Delete	Lipiodol (115 Bengue)	flasks 20% ..	20	10	5	2½	2	9		
	Liquifruta (1102 Sanitas)	with honey ..	20	10	5	2½	2	9		
	L'Or (301 Coty)	perfume ..	139/55	967	6	235	10	147	0	
		parfum de toilette	228/55	414	6	101	0	63	0	
			262/55	691	0	168	5	105	0	
	L'Origan (301 Coty)	soap bath ..	081	29	9	7	3	4	0	
	Lumuscoba (1483 JBB)	body belt ..	24	0ea	2	5ea	40	0		
	Madecassol (117 BPL)	ampoules 1 mil ..	10	37	4ea	9	4ea	65	4	
Delete		injections ..	3							
Insert	Mandelamine (1310 WW)	(distributors 776 Loveridge)								
	Mannitol (837 MSD)	25% solution								
		ampoules 50 mil ..	10	6ea	—	—	15	9		
Insert	Mastra (980 Photopia)	universal viewfinder ..	R54	83	0ea	20	2ea	144	8	
		case ..	R55	6	8ea	1	8ea	11	8	
	Maws (810 Maw)	teats small hole	300-00	6	3	—	—	9		
		medium hole	300-01	6	3	—	—	9		
		large hole	300-02	6	3	—	—	9		
		extra large hole	300-04	6	3	—	—	9		
		three holes	300-05	6	3	—	—	9		
	Max Factor (813 MF)	Coiffure Italienne ..	41	4	9	10	6	0		
	Melbrosia (588 H&H)	4-week treatment ..	43	0ea	10	9ea	76	0		
			5	8ea	1	5½ea	9	11		
	Melbroton (588 H&H)									
	Meldaire (833 Mel P)	depilatory roll-on ..	36	0	9	0	5	6		
Delete	Mentholatum (836 Mentholatum)	balm								
		tin ..	5	3	1	4	9			
		tin ..	7	3	1	9½	1	0		
		jar ..	18	6	4	7½	2	6		
		tube ..	18	6	4	7½	2	6		
	Merocets (838 MN)	lozenges ..	16	18	0	—	2	3		
	Midicel (938 PD)	suspension ..	16 oz	56	8ea	—	85	0	TS	4B
	Monil (858 Monil)	reducer ..		24	0	6	0	3	6	
		shampoo ..		24	0	6	0	3	6	
	Mucaine (1352 Wyeth)	suspension ..	12 oz	72	0	—	8	0	TS	4B
	Muguet de Bois (301 Coty)	soap bath ..	081	29	9	7	3	4	0	
	Myanesin (179 BDH)	elixir 1gm/15 mils ..	8 oz	60	0	—	7	6	TS	4B
		1 litre	18	5ea	—	—	27	7½	TS	4B
		2 litres	35	6ea	—	—	53	3	TS	4B
Delete	Mycifradin Veriderm (1263 Upjohn)									
	Myolgin (37 Allied)	tablets ..	20	24	0	6	0	3	6	†
		dp 250	16	0ea	—	—	—	—	—	†
Delete	Neodex (657 IL)									
Insert	Neodex (1485 Diva)									
Delete	Neoferrum (324 Crookes)	intravenous both packs								
	Neuva Maja (317 CS)	cologne ..	1 oz	7	3ea	1	9½ea	13	6	
			1½ oz	11	0ea	2	9ea	20	0	
			3½ oz	18	6ea	4	7½ea	33	6	
		perfume ..	1/7 oz	10	3ea	2	6½ea	19	0	
			1 oz	20	9ea	5	2½ea	37	6	
			1½ oz	35	9ea	8	11½ea	65	0	
			1 oz	47	6ea	11	10½ea	87	6	
			1½ oz	65	0ea	16	3ea	119	6	
	Newcadin (518 Glaxo)	vaccine (vet) ..	50 mils	12	6ea	—	—	15	8	
			500 mils	112	6ea	—	—	150	0	
	New De Witt's (372 De Witt)	pills ..		17	4	4	3	2	4	
				35	6	8	8	4	9	
				56	3	13	9	7	6	
	New Tress (525 Golden)	wave set ..		20	0	5	0	2	11	
				12	6	3	2	1	10	
	Nicopyron (507 GE)	suppositories ..	6	85	0	—	—	10	7	
			50	622	0	—	—	77	9	
		tablets ..	20	85	0	—	—	10	7	
			50	163	0	—	—	20	4	
			250	792	0	—	—	99	0	
			1000	3038	3	—	—	379	9	
	Nilodor (1474 NRA)	air freshener ..		92	0	—	—	11	6	
	Nobecutane (436 Evans)	plastic dressing	50 mils	9	0ea	—	—	13	6	
		spray ..	100 mils	15	0ea	—	—	22	6	
			300 mils	24	0ea	—	—	36	0	
	Nucta (1192 SGD)	hair sprays ..	6 oz	36	0	9	0	5	3	
			16 oz	64	0	16	0	9	6	
Delete	shampoo Bonnle ..									
	Nulon (1037 Reckitt)	hand cream ..	A	25	8	6	3	3	6	
	Nutrasol (324 Crookes)	1 oz	26	0	—	—	—	3	3	
		box of 12 bottles	24	0	—	—	—	36	0	
	Nylax (175 BCP)	tablets ..	20's							
Delete										
	Oestroform (179 BDH)	aqueous oestradiol benzoate BP								
Delete		1 mgm 1 mil ampoules packs of 6 and 25								
	Or-Lem (918 Orlem)	blackcurrant syrup	12 oz	17	10	2	8	2	3	
			26 oz	28	8	4	4	3	6	
		Sunreal whole orange	26 oz	20	10	3	2	2	6	
	Ornimed (718 LAB)	bird seeds								
Insert		with chloramphenicol								TS
Insert		with penicillin ..								TS
Insert		with sulphamide ..								TS
	Otrivine (262 CIBA)	adult solution 0.1%								
		nebuliser	40	0	10	0	5	10		
		drops	40	0	10	0	5	10		
		paediatric solution								
		drops	36	0	9	0	5	3		
Delete	Otto of flowers (1070 Windsor)	whole range								
	Owbridges (925 Owbridge)	new formula ..		19	6	4	10½	2	8	
				34	2	8	6½	4	7	
Insert	Pacatal (1310 WW)	(distributors 776 Loveridge)								
	Paedo-Sed (466 FF)	childrens sedative sachet 12	36	0	9	0	4	9	†	
		20 oz	12	6ea	3	1ea	—	—	†	
	Palaprin (187 BS)	tablets ..	30	54	0	—	5	9		
			250	35	6ea	—	45	0		
	Pancorex (930 P&B)	powder ..	100 gm	6	0ea	—	9	0		
			500 gm	25	0ea	—	37	6		
			1000 gm	48	0ea	—	72	0		
	Pancorex V (930 P&B)	capsules ..	100	12	0ea	—	18	0		
			250	28	0ea	—	42	0		
			500	54	0ea	—	81	0		
	Paragen (54 Antigen)	tablets ..	0.5 gm 1000	26	8ea	—	40	0		
	Paris (301 Coty)	soap bath ..	081	29	9	7	3	4	0	
	Parke-Davis (938 PD)	analgesic balm ..		24	0	6	0	3	6	
Delete		aspirin with Dover powder tablets								
		vaccines								
Delete		diphtheria-pertussis prophylactic								
	PAS sodium (54 Antigen)	cachets 1.5 gm ..	100	12	0ea	—	18	0		
			500	52	0ea	—	78	0		
Delete		hyoscine hydrobrom. hypo. tablets gr. 1/100								
Delete	Pausandryl (1087 Roussel)	entire entry								
Delete	Perebron (1310 WW)	entire entry								
	Perideca (837 MSD)	tablets ..	50	25	0ea	6	3ea	43	9	TS
Delete	Permaco (357 &H)	DS								
Insert	Permaco (895 NA&V)	bullets (cattle) ..	12	345	6	—	72	0		
		(sheep) ..	50	360	0	—	75	0		
	Perma-Sharp (958 PS)	razor blades (5) carded		17	1½	4	3½	3	0	
		carton		34	3	8	7	3	0	
	Pernicream (179 BDH)	tube		24	0	6	0	3	6	†
	Phospholine Iodide (1106S)	all packs ..								TS
Insert	Photopia (980 Photopia)	exposure meter N.E.1 P23	51	4ea	12	6ea	89	6		
		N.E.3 P24	45	6ea	11	3ea	79	6		
	Phyllis Scott Lesley (1014 PSL)	almond milk ..	2 oz					10	6	
			4 oz					15	2	
			8 oz					22	9	
		B.Z.10 skin serum ..						42	0	
		special oll ..	2 oz					28	0	
		cover cream ..						8	9	
		magnolla creamy moisture								
		lotion ..	2 oz					16	0	
			4 oz					22	9	
		Roi Solaire ..	4 oz					12	8	
		topaz herbal lotion ..	4 oz					15	2	
Delete	Pierre Cardin (359 DDD)									
Insert	Pierre Cardin (1475 Concorde)									
	Pino Silvestro (529 Gorney)	eau de Cologne ..	50	66	0	16	6	9	9	
			100	114	0	28	6	16	9	
			200	16	0ea	4	0ea	28	6	
		bath foam ..		54	0	13	6	8	6	
	Please (895 NA&V)	choc-drops for dogs ..		26	1	3	11	1	8	
	Poli-grip (1178 Stafford)	(distributors 451 F&J)								
		denture cream	1½ oz	28	0	—	3	6		

Delete	Polly (890 NC & C)								
Insert	Polly (1480 Izal)								
Insert	Polycolor (721 LC)	..	32	8	8	2	4	9	‡
Insert	Polylock (721 LC)								‡
Insert	small kit	..	37	9	9	5	5	6	‡
Insert	Polytint (721 LC)								‡
Insert	Pompette (886 NCR)								
Insert	shampoo spray	..	7	6ea	9ea	12	0		
Delete	Poppet (890 NC&C)								
Insert	Poppet (1480 Izal)								
Delete	Proctosedyl (1087 Roussel)								
Insert	suppositories	..	12	108	0	—	13	6	TS
Delete	6 and 48								
Delete	Provera (1263 Upjohn)								
Insert	tablets 5 mgm	..	20	19	2ea	—	—	‡s4B	
		100		80	0ea	—	—	‡s4B	
	Proxinol (67 Ashe)								
	safflower oil	..	1/2 pt	76	6	—	8	6	
Insert	Pyridium (1310 WW)								
	(distributors 776 Loveridge)								
	Rennies (894 Nicholas)	..	150	35	10	9	0	4	9
	Rexona (756 Lever)								
	soap	..		25	4	6	2	1	0
				(3 doz)		(3 doz)		1	8
				42	3	10	4		
				(3 doz)		(3 doz)			
	Rhuaka (1307 Waterhouse)								
	tablets	..	12	12	6	3	1 1/2	1	10
	Ribena (103 BF)								
	blackcurrant drink	18 oz		43	11	6	7 1/2	5	3*
				*Includes 3d for container					
	Richpine (499 Richter)								
		4 oz		36	0	9	0	5	3
		8 oz		64	0	16	0	9	4
	Rinoxin (506 Gerhardt)								
	concentrate (all sizes)	..						‡s4B	
	readimix (all sizes)	..						‡s4B	
	Royal Sweden (1412 Jackel)								
Delete	15216								
Delete	15261								
Delete	1760								
Delete	1984								
Delete	594								
Delete	496								
Delete	parent mirror set								
Delete	Kontur bristle	..	15201	162	0	40	6	23	11
			15202	192	0	48	0	27	11
			15206	252	0	63	0	37	6
			15223	192	0	48	0	27	11
			15265	112	0	28	0	16	6
Delete	Royal Sweden...								
Insert	Rubelix (466 FF)								
Insert	Rubelix (466 FF) prices unchanged								
	Sanatogen (502 Genatosan)								
	selected multivitamins	30	56	0	—	7	0		
		60	104	0	—	13	0		
	Sanescol (878 Napp)								
Insert									†
	Savlon (649 ICI)								
	lozenges	..	12	13	9	3	5	2	0†
	Scan (31 AP)								
		..		13	10	3	5 1/2	2	1
		..		23	6	5	10 1/2	3	6
	Scotties (153 BSC)								
	50 two ply regular			26	1	—	1	0	
				(3 doz.)					
	100 two ply			47	5	—	1	9	
				(3 doz)					
	150 two ply economy			45	1	—	2	6	
				(2 doz)					
	200 two ply family			42	8	—	3	2	
				(1 1/2 doz)					
	Sedalby (115 Bengue)								
		..		dp 250	240	0	60	0	‡s1s4A
Insert	Seneschal (1124 Sen M)								
	corn planes	..		22	6	5	7 1/2	3	1
	Senokot (1324 Westminster)								
	tablets	..	16	10	6	—	1	3	
Delete	Senpolin (1154 S&N) liniment								
	SH.420 (973 Pharmethicals)								
	tablets 10 mgm	..	20	24	0ea	—	‡s4B		
	Show Girl (1478 SBP)								
	cologne deodorant	..	6 oz	26	5	6	7	4	11
	hair spray	..	8 oz	30	9 1/2	7	2 1/2	5	11
	Siestol (859 Moore)								
	capsules	..	18	22	0	5	6	3	3
	Solufin (673 J of H)								
	developer	..	250 mls	40	0	—	5	0	
		2 1/2 litre		20	0ea	—	30	0	
	Somilan (179 BDH)								
	tablets	..	30	78	0	—	9	9	
		500		92	6ea	—	138	9	
Delete	Somnotil (37 Allied)								
Delete	Soporal-A (37 Allied)								
	Sorosil (878 Napp)								
Insert									†
	Spray 'N Stay (256 CPL)								
	hairspray economy size								
	16 oz	..		45	5	11	5	12	6
	Stabliin V-K (147 Boots)								
	syrup, granules for 60 mls			4	4ea	—	6	6	TS
	Stamina (1112 SBF)								
	dog food	..	economy	18	6	—	1	11 1/2	

	Stera-Fix (1037 Reckitt)		15	9	—		1	9	
	Suba-Seal (479 WF)								
	feeders								
	stopper .. 3A3-29		2	8	—			4	
	Sucron (67 Ashe) .. 6 oz		19	2	—		1	11	
	Sudden Veil-Lift (160 Bliss)								
	facial mask (8 treat- ments)		36	0ea	9	0ea	63	0	
Delete	Suite 16 (Pierre Cardin (366 Dendron))								
Insert	Suite 16 (Pierre Cardin (1475 Concorde))								
	Sunbeam (1199 Sunbeam)								
	Shavemaster 190-250 v. XS	..	..	..	..	152	6		
	Sunset (1343 DW)								
	TR III Speedlight flash unit .. ..	..	..	..	..	195	6		
	Sure Shield (549 Guest)								
	pastilles								
	blackcurrant & glycerine		13	4	2	0	1	10	
	Gee's B.P.C. ..		12	6	—		1	7 †	
	glycerine, lemon & honey		13	4	2	0	1	10	
	Sustac (972 Pharmax)								
	tablets gr 2½ .. dp 30		102	0	—		11	4 †	
	dp 250		780	0	—		86	8 †	
	gr 1½ .. dp 30		126	0	—		14	0 †	
	dp 250		972	0	—		108	0 †	
	Swan Lake (893 Nicholas)								
	talcum		13	2	3	3½	1	11	
	Sweet Sue (1412 Jackel)								
	perfumed sachets ..		17	0	4	3	2	6	
Delete	.. ..		15	6	3	10½	2	6	
	Syratissar (61 APC)								
	syrup 4 oz		7	0ea	1	9ea	12	3 †s7	
	Tetralysal (478 Fraser)								
	capsules 150 mgm .. 16		17	7ea	—		26	4 TS	
	100		105	4ea	—		157	11 TS	
	1000		1016	3ea	—		1424	3 TS	
	.. ..		3	4ea	—		5	0 TS	
	injection								
	Thermona (1154 S&N)								
	liniment		24	0	6	0	3	6	
Delete	Thermos (1226 Thermos)								
	vacuum flask refills								
	19F & 77F								
	jugs 348	..	..	..	..	63	6		
Insert	46/1 .. ..	..	..	..	..	50	9		
Insert	46/2 .. ..	..	..	..	..	58	0		
Insert	tray set 54Q	..	..	..	..	81	9		
Delete	45 & 45Q								
Insert	jug refill .. J/1F	..	..	..	..	15	6		
Insert	J/2F	..	..	..	..	20	0		
Delete	22F, 140QF, 54F								
	Throaties (64 AW)								
	blackcurrant		3	10	11	6			
	lemon, honey and menthof		3	10	11	6			
	Thylin (1320 WP)								
	tablets 250 mgm .. 100		30	0ea	—	45	0		
Delete	Tixyl (971 PSMB)								
Insert	Tixyl (971 PSMB) prices same								
	Together (462 Field)								
	cologne		58	3	14	6½	8	6	
	perfume		48	0	12	0	7	0	
	satin talc		32	8	8	2	4	9	
	Trafuril (262 CIBA)								
	cream 20 gm single		2	0ea	—	3	0		
	12		20	0ea	—	3	0		
	Treminon (452 FBA)								
Insert	all packs .. ..	..	..	..	..	†s1s4A			
Delete	Tress (525 Golden)								
	Trill (525 Golden)								
	hair conditioner ..		17	1	4	3	2	6	
Insert	Tricoid (818 M&B)								
	film cement .. 500 mls		108	0	—	13	6		
	Trivax (208 BW)								
	ampoule 0.5 cc .. 1		20	0	—	2	6		
	Tryptizol (837 MSD)								
	syrup 4 oz		8	6ea	—	12	9 †s4B		
	Tylagel (378 Distal) tube		26	0	—	3	3		
	Tylan (1477 Elanco)								
	injectable .. 250 mls		20	0ea	—	30	0		
	500 mls		39	2ea	—	58	9		
	soluble 50 gm		82	2ea	—	123	3		
	100 gm		157	2ea	—	235	9		
	Tyzanol (583 HP)								
	spray pack		32	0	—	4	0		
	Uracil (1263 Upjohn)								
	capsules 1 mgm .. 50		56	8ea	—	—	†s4A		
Insert	Urolucosil (1310 WW)								
	(distributors 776 Loveridge)								
	Valium (1074 Roche)								
	tablets 2 mgm .. 100		16	8ea	—	25	0 †s4B		
	500		66	8ea	—	100	0 †s4B		
	100		24	0ea	—	36	0 †s4B		
	500		98	8ea	—	148	0 †s4B		
Insert	Varicones (898 Northern)								
	pile remedy		14	2	3	6½	2	1	
			33	4	8	4	5	0	
			59	0	14	9	8	11	
	Vaseline (256 CPL)								
	petroleum jelly								
	yellow jar		10	8	2	8	1	5	
	Velouty (379 Dixor)								
	powder cream jar		27	0	6	9	4	0	
Delete	.. .. jar		20	6	5	1½	3	1	
	Veltis (115 Bengue)								
	cream								
	perfumed .. 40 gm		18	0	4	6	2	6	
	70 gm		25	0	6	3	3	6	
	unperfumed .. 40 gm		18	0	4	6	2	6	
	70 gm		25	0	6	3	3	6	

Delete Velvet (1275 VCP) all entries*Insert* Velvet (1275 VCP)

handkerchief	tissues				
	pocket pack	2	8	—	4
	standard	8	0	—	1 0
	triple	20	0	—	2 6
toilet tissue	"jumbo"				
size	rolls single	13	4	—	1 6
	double	25	8	—	2 11

Vernon (980 Photopla)

cine camera 8 mm 18/28 216 10ea 52 9ea 378 0

V.I.P. (1482 NP)

men's toilet kit .. 108 0 27 0 14 11

Vita-E (127 Bioglan)

gels 75 i.u. .. 100 25 0ea — 37 6

500 116 8ea — 175 0

1000 226 8ea — 340 0

200 l.u. .. 100 60 0ea — 90 0

500 286 8ea — 430 0

400 l.u. .. 100 113 4ea — 170 0

500 560 0ea — 840 0

800 i.u. .. 100 220 0ea — 330 0

gelucaps 75 l.u. .. 90 23 4ea — 35 0

120 30 0ea — 45 0

500 116 8ea — 175 0

1000 226 8ea — 340 0

powder 1000 i.u. 100 doses 153 4ea — 230 0

succinate tablets 50 l.u. 500 66 8ea — 100 0

1000 133 4ea — 200 0

200 i.u. 50 28 4ea — 42 6

100 52 4ea — 78 6

500 253 4ea — 380 0

1000 493 4ea — 740 0

Vitacoat (1284 V)*Delete* Vitrex*Insert* Vitex .. 60 0 15 0 8 9**Vivacious** (385 DG)

bath essence .. 89 0 22 3 13 0

dusting powder .. tin 57 0 14 3 8 6

perfume .. purse 89 0 22 3 13 0

skin perfume .. 2 oz 89 0 22 3 13 0

4 oz 132 0 33 0 19 3

Voigtlander (673 J of H)

Vito automatic 1 .. — — 651 0

Vitoret R .. — — 383 8

Volital (718 LAB)

.. 500 58 0ea 14 6ea 92 0 †s4B

Wallis (1479 Wallis)

junior aspirin tablets .. 9 0 2 3 1 9

Wander (1303 Wander)

diabetic chocolate .. 30 5 4 6 3 9

Warmabed (1308 Warmabed)

electric blanket

"De Luxe" single 60×30 157 9

double 60×48 232 0

three heat single 60×30 185 2

double 60×48 244 10

"Standard" single 60×30 113 8

double 157 7

Delete "Golden Rest" both sizes**Wellcome** (208 BW)

tetanus antitoxin

1,500 i.u. in 1 cc .. 10 194 0 — 24 3

Delete tetanus toxoid 0.5 cc .. 12 20 0 — 2 6

tuberculin old, human T 1 cc .. 36 0 — 4 6

5 cc 126 0 — 15 9

1 in 100 .. 1 cc 36 0 — 4 6

1 in 1,000 .. 1 cc 36 0 — 4 6

1 in 10,000 .. 1 cc 36 0 — 4 6

Wernets Dr. (1178 Stafford)

denture powder .. 16 0 — 2 0

Delete **Wydase** (1352 Wyeth)

ampoules 1000 iu .. 14 6 2 2 1 10½

Wyness (1338 W&S)**Xylocaine** (68 AH)

eye drops 4% .. 6 6ea — 9 9

gel .. tube 15 ml 33 0 — 4 1½

Zactirin (1352 Wyeth)

tablets .. — — — †s4B

Delete **Zal** (890 WC&C)*Delete* **Zal** (1480 Izal)*Delete* Zo all sizes**Zonal** (54 Antigen)

salt .. 2 oz 16 0 — 2 0

Delete Zonas all sizes

ADDITIONS TO KEY TO SUPPLIERS

(89 Barluze)=BARLUZE (PRODUCTS) LTD., 2 Lovaine Avenue, Whitley Bay, Northumberland.

(376 Dimol)=DIMOL LABORATORIES LTD., 34 Ludgate Hill, London, E.C.4. City 6309.

(378 Distal)=DISTA PRODUCTS, LTD., Fleming Road, Speke, Liverpool 24. Hunts Cross 1271.

(425 ELC)=ESTEE LAUDER COSMETICS, LTD., 18 Davies Street, London, W.1. Hyde Park 6949.

(478 Fraser)=FRASER CHEMICALS, LTD., 88 Lewisham High Street, London, S.E.13. Lee Green 7486.

(484 Fulford)=C. E. FULFORD, LTD., Knapping Mount, West Grove Road, Harrogate, Yorks. Harrogate 69661.

(509 Gibbs)=GIBBS PEPSODENT, LTD., Hesketh House, Portman Square, London, W.1. Hunter 1200.

(529 Gorney)=GORNEY, LTD., Cross Bath Road, Bramley, Leeds, 13. Pudsey 77221.

(833 Mel P)=MELDAIRE PRODUCTS, LTD., P.O. Box 2. Manchester 21.

Delete 890 NC&C=NEWTON CHAMBERS & CO., LTD.

(863 MR)=MORPHY-RICHARDS, LTD., 50 Conduit Street, London W.1. Whitehall 9755.

(958 PS)=PERMA-SHARP, LTD., Flakefield, East Kilbride, Scotland East Kilbride 21391.

(1124 Sen M)=SENECHAL MANUFACTURING CO., 109a Dartmouth Road, London, N.W.2. Gladstone 4187.

(1243 Topsy)=TOPSY PHARMACEUTICALS LTD., Fountain Street Oldham, Lancs. Oldham Main 3045.

(1246 TP&T)=TOWER PILL AND TABLET CO., LTD., 6 Cole Street London, S.E.1. Hop 1229.

(1254 UCS)=U.C.S. (LONDON), LTD., 39 Albemarle Street, London, W. Hyde Park 2630.

(1469 Caron)=PARFUM CARON, 2 Old Bond Street, London, W. Hyde Park 5110.

(1472 Corry)=CORY & CO., LTD., 10 Borough High Street, London S.E.1. Hop 3493.

(1474 NRA)=N.R. AGENCIES, LTD., Harcourt Road, Bexleyheath Kent. Bexleyheath 1940.

(1475 Concorde)=CONCORDE PERFUMERY & COSMETICS, LTD 94 Rickmansworth Road, Watford, Herts. Watford 29251.

(1476 AC)=ANTOLIA COMPANY, Studio Six, 5 Kensington Church Street London, W.8. Western 9334.

(1477 Elanco)=ELANCO PRODUCTS, LTD., Broadway House, The Broadway, London, S.W.19. Liberty 6600.

(1478 SBP)=SHOWGIRL BEAUTY PRODUCTS, 50 Greyhound Road London, N.15. Tottenham 0570.

(1479 Wallis)=WALLIS LABORATORY, LTD., Holywell Industrial Estate, Watford, Herts. Watford 21812.

(1480 Izal)=IZAL LTD., Thorncliffe, Sheffield. Ecclesfield 3171.

(1481 JHL)=JOSEPHINE HART, LTD., 73 Bordesley Green, Birmingham 9. Birmingham Victoria 5545.

(1482 NP)=NATIONWIDE PHARMACEUTICALS, LTD., 7 Cleveland Gardens, London, W.2. Ambassador 4420.

(1483 JBB)=JOHNSON BODY BELT CO., Dome Buildings, The Quadrant, Richmond, Surrey. Richmond 1053.

(1484 PCPL)=PARAMOUNT COURT PHARMACY, LTD., 155 Tottenham Court Road, London, W.1. Euston 1089.

(1485 Diva)=DIVA LABORATORIES (GREAT BRITAIN), LTD. 229a Shaftesbury Avenue, London, W.C.2.

THIS WEEK'S CHANGES

NEW and altered entries notified for the first time

A = Advanced. R = Reduced.

Entries new this week are marked thus:—●

● **Andre Philippe** (48 AP)

● bubble bath set .. 22 54 0 13 6 7 11

● **Boy Blue** (1114 SLL)

shampoo .. sachet 15 0 3 9 9

(3½ doz) (3½ doz)

● **Bronchilator** (97 Bayer)

measured-dose nebuliser .. 10 mls 14 0ea 3 6ea 24 6 †s7

● **Calsotone** (1166 Southon)

tablets .. 30 24 0 6 0 3 9

● **Dubois** (160 Bliss)

cologne spray .. 65 3 16 4 9 6

lavender spray .. 65 3 16 4 9 6

perfume spray

Chicana .. 171 3 42 10 24 11

Chiquette .. 109 0 27 3 15 11

Chiquita .. 171 3 42 10 24 11

talc spray .. 45 0 11 3 6 6

Insert **Dylon** (816 Mayborn)

dyes carpet .. 68 0 — 8 6

Corr. spot dry cleaner .. 22 6 — 2 6*Delete* Elorine chloride (413 Lilly) Pulvules● **Emeraude** (301 Coty)

perfume .. 110-40 115 3 28 1 17 6

121-40 164 6 40 1 25 0

141-40 296 3 72 3 45 0

151-40 493 6 120 3 75 0

171-40 845 6 206 0 128 6

Delete existing packs● **Eugene** (431 Eugene)

colour tones .. 22 3 5 7 3 3

● **Ever Ready** (438 ER)

A stropping machine with

strop .. 87 6 21 11 12 6

A strop .. 34 4 8 7 5 0

● **Focus** (1242 Toni)

extra .. 27 7½ 6 11 3 11

hair spray .. 62 11 16 9 8 11

● **Frador** (107 BH&L)

.. 17 5 3 11 2 6

Delete .. 21 3 5 4 3 7A **Gale's** (449 JF)

honey set .. ½ lb 19 2 — 1 11

1 lb 31 8 — 3 2

clear .. ½ lb 19 2 — 1 11

1 lb 31 8 — 3 2

● four leaf clover .. 1 lb 35 0 — 3 6

● **Hiolite** (160 Bliss)

hair lacquer aerosol .. 65 0 16 3 9 6

Hudnut (631 Hudnut)

A Bloom rouge .. 513 34 4 8 7 5 0

Delete Kobler (1253 Turnpenny) entries*Insert* Kobler (1253 Turnpenny)

electric razors

Classic .. 294 0

home and car .. 330 0

Export .. 212 9

Compact .. 145 4

Lady .. 239 6

Triplex .. 336 0

V-Matic .. 325 0

spares

bayonet adaptor .. 5 4

	massage head ..	..	..	..	48	11	
	nail file attachment ..	..	..	..	52	10	
	super head with cutter ..	..	..	..	42	10	
●	L'Aimant (301 Coty) perfume ..	110-20	115	3	28	1	17 6
		121-20	164	6	40	1	25 0
		141-20	296	3	72	3	45 0
		151-20	493	6	120	3	75 0
		171-20	845	6	206	0	128 6
Delete	existing packs						
●	Lloyd's (769 Lloyd Hamol) high protein food .. ½ lb	55	3	—	5	9	
●	L'Origan (301 Coty) perfume ..	110-70	115	3	28	1	17 6
		121-70	164	6	40	1	25 0
		141-70	296	3	72	3	45 0
		151-70	493	6	120	3	75 0
		171-70	845	6	206	0	128 6
Delete	existing packs						
●	Meteor (301 Coty) perfume ..	110-59	115	3	28	1	17 6
		5901	296	3	72	3	45 0
		5902	493	6	120	3	75 0
Delete	existing packs						
A	Milk of Magnesia (976 PS&T) tablets ..	..	12	7	4	1	10 1 0
●	Miss Muffet (1114 SLL) shampoo .. sachet	15	0	3	9		9
		(3½ doz)		(3½ doz)			
●	Morgan's (861 MPC) hair darkening cream ..	39	0	9	9	6	10
●	Muguet des Bois (301 Coty) perfume ..	110-60	115	3	28	1	17 6
		121-60	164	6	40	1	25 0
		141-60	296	3	72	3	45 0
		151-60	493	6	120	3	75 0
Delete	existing packs						
R	Neomin (518 Glaxo) liquid ..	..	2 oz	7	0ea	—	9 4 TS
R	Orastrep (378 Dista) suspension ..	50 mls	86	0	—	10	9 †s4B
		500 mls	56	8ea	—	85	0 †s4B
		.. 25	96	0	—	12	0 †s4B
		100	31	4ea	—	47	0 †s4B
		500	122	6ea	—	183	9 †s4B

●	Pal (438 ER) injector blades stainless steel ..	5	28	0	7	0	4	0	
			(12 mags)		(12 mags)				
●	Paris (301 Coty) perfume ..	110-80	15	3	23	1	17	6	
		121-80	164	6	40	1	25	0	
		141-80	296	3	72	3	45	0	
		151-80	493	6	120	3	75	0	
		171-80	845	6	206	0	128	6	
Delete	existing packs								
R	Penbritin (1393 BRL) capsules 250 mgm ..	20	41	0ea	—	61	6	TS	
		100	199	0ea	—	298	6	TS	
		500	960	0ea	—	1440	0	TS	
●	syrup 125 mgm/5 mls	60 mls	18	0ea	—	27	0	TS	
R	tablets 125 mgm ..	20	24	3ea	—	36	6	TS	
		100	114	0ea	—	171	0	TS	
Corr.	Phocil (78 AS&Co.) 100 mls	22	9	5	8	—	—	†	
		250 mls	50	6	12	7	—	†	
		500 mls	7	0ea	—	—	—	†	
		2 litres	24	10ea	—	—	—	†	
●	Refevit (68 AH) tablets ..	..	30	36	0	—	4	6	
		..	240	21	6ea	—	32	3	
		1000	84	0ea	—	—	—	—	
A	Spire (78 AS&Co) olive oil ..	2½ oz	16	6	—	—	—	—	
		5 oz	28	6	—	—	—	—	
		10 oz	54	0	—	—	—	—	
		20 oz	—	—	—	—	—	—	
Delete									

AMENDMENTS AND ADDITIONS TO KEY TO SUPPLIERS

- (267 C&A)=CLAY & ABRAHAM (MANUFACTURING), LTD., 40 Hanover Street, Liverpool, 1.
 (597 HCL)=HELENE CURTIS, LTD., New Lane, Havant, Hants. Havant 2414.
 (942 Passmill)=PASSMILL (PAPER PRODUCTS), LTD., Tennyson Street, Bolton, Lancs. Bolton 27125.

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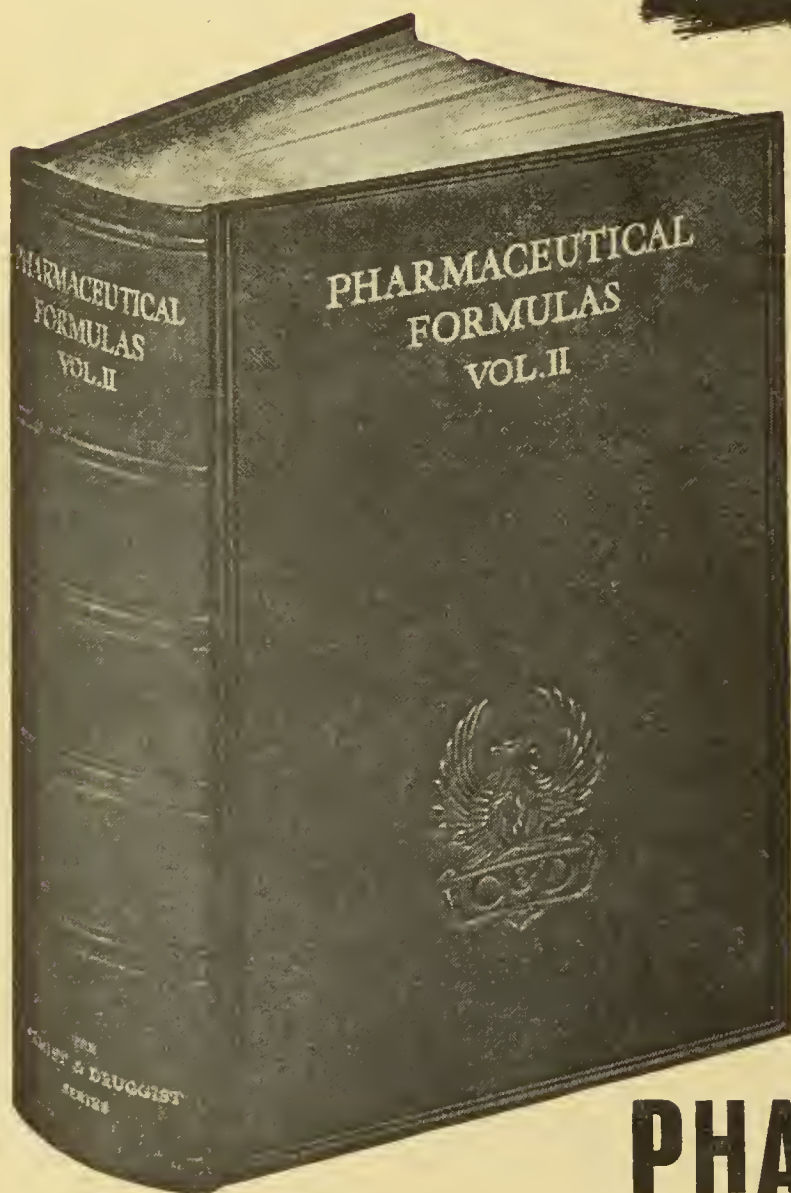
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